SDS No. : TNR-C0016-PRN (for EU)

PRINTRONIX SAFETY DATA SHEET

Toner Powder (Cartridge) for

LP844C

LP654C

Printronix, LLC.

SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier Product name:	Black toner powder (cartridge) for LP844C LP654C (Toner powder name: ODK-11-TH)
Product description:	Black Toner
1.2 Relevant identified uses of the substance or Material uses:	mixture and uses advised against For electrophotographic printing systems
1.3 Details of the supplier of the safety data she Manufacturer:	et Oki Electric Industry Co., Ltd. 1-7-12 Toranomon, Minato-ku, Tokyo, 105-8460, Japan Tel: 03-3501-3111
Supplier:	Printronix, LLC. 7700 Irvine Center Drive, Suite 700, Irvine, CA 92618 USA
1.4 Emergency telephone number	Tel. 1-800-665-6210 Tel. 1-714-368-2300

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Not classified.

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above. See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Hazard pictograms Signal word Hazard statements	: No signal word. No known significant effects or critical hazards.
Precautionary statements Prevention Response Storage Disposal	 Not applicable. Not applicable. Not applicable. Not applicable.
Hazardous ingredients Supplemental label elements	: Not applicable.
Annex XVII - Restrictions	: Not applicable.



on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

2.3 Other hazards
 Product meets the criteria for PBT or vPvB according to Regulation (EC) No.
 1907/2006, Annex XIII
 This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

Other hazards which do not result in classification

: None known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

: Mixture.

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs or vPvBs or have been assigned a workplace exposure limit and hence require reporting in this section.

Type

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII

[4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

[5] Substance of equivalent concern

[6] Additional disclosure due to company policy

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact	 Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Inhalation	 Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Skin contact	: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion	: Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training.

SAFETY DATA SHEET

4.2 Most important symptoms and effects, both acute and delayed <u>Over-exposure signs/symptoms</u>

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Eye contact Inhalation	:	Adverse symptoms may include the following: irritation redness Adverse symptoms may include the following: respiratory tract irritation coughing
Skin contact Ingestion	:	No specific data. No specific data.
4.3 Indication of any immedia Notes to physician	te me :	edical attention and special treatment needed In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	:	No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media Suitable extinguishing media	:	Use dry chemical powder.
Unsuitable extinguishing media	:	Avoid high pressure media which could cause the formation of a potentially explosible dust-air mixture.
5.2 Special hazards arising fror Hazards from the	n th :	ne substance or mixture May form explosible dust-air mixture if dispersed.
substance or mixture		
Hazardous combustion products	:	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides halogenated compounds metal oxide/oxides
5.3 Advice for firefighters Special precautions for fire-fighters	:	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	:	Fire-fighters should wear appropriate protective equipment and self- contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

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For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing dust. Put on appropriate personal protective equipment.
For emergency responders	:	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
6.2 Environmental precautions	:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
6.3 Methods and materials for	con	tainment and cleaning un
Small spill	:	Move containers from spill area. Use spark-proof tools and explosion- proof equipment. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.
Large spill	:	Move containers from spill area. Use spark-proof tools and explosion- proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Avoid creating dusty conditions and prevent wind dispersal. Dispose of via a licensed waste disposal contractor.
6.4 Reference to other sections	:	See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling	
Protective measures :	Put on appropriate personal protective equipment (see Section 8). Avoid breathing dust. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Prevent dust accumulation. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material.
Advice on general : occupational hygiene	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing

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materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)

Recommendations	:	Not available.
Industrial sector specific :	:	Not available.
solutions		

SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
Europe	
No exposure limit value known.	
Germany	
No exposure limit value known.	
Spain	
No exposure limit value known.	
Austria	
No exposure limit value known.	

Recommended monitoring If this product contains ingredients with exposure limits, personal, procedures workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required. **DNELs/DMELs** No DNELs/DMELs available. **PNECs** No PNECs available.

8.2 Exposure controls Appropriate engineering controls : Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Individual protection measures

Hygiene measures	:	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	:	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields. If operating conditions cause high dust concentrations to be produced, use dust goggles. Recommended: Splash goggles.,Safety glasses with side shields.
<u>Skin protection</u> Hand protection	:	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. > 8 hours (breakthrough time): natural rubber (latex)
Body protection	:	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Recommended: Lab coat.,overall
Other skin protection	:	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Recommended:
Respiratory protection	:	Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.
Environmental exposure controls	:	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Remark	:	The penetration-time of the recommended gloves depends not only on the material. Also other factors may have influence on the penetration-time, as their thickness or the specific use or conditions (temperature). In any case, certificate materials (for example following EN 374) should be selected. Please ask your supplier, if the gloves are suitable for the intended use.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance		
Physical state	:	Solid. [Powder.]
Color	:	Black
Odor	:	Odorless.
Odor threshold	:	Not available.
рН	:	Not applicable.
Melting point	:	Not available.
Initial boiling point and	:	Not available.
boiling range		

Flash point Evaporation rate Flammability (solid, gas) Upper/lower flammability or explosive limits	::	Not available. Not available. Not available. Not available.
Vapor density Density Solubility(ies) Partition coefficient: n- octanol/ water	:	Not available. 1.2 g/cm ³ [20°C] Insoluble in the following materials: cold water and hot water. Not available.
Decomposition temperature Viscosity (Dynamic) Explosive properties	:	Not available. Not available. Explosive in the presence of the following materials or conditions: open flames, sparks and static discharge.
Oxidizing properties	:	Not available.
9.2 Other information		

No additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredients.	
10.2 Chemical stability	: The product is stable.	
10.3 Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.	
10.4 Conditions to avoid	: Explosive in the presence of the following materials or conditions: open flames, sparks and static discharge.	
10.5 Incompatible materials	: Reactive or incompatible with the following materials: oxidizing materials	
10.6 Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.	

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose
Proprietary mixture.	LC50 Inhalation Dusts and mists	Rat	>5.07 mg/l
	LD50 Oral	Rat	>2000 mg/kg
Conclusion/Summary : No	ot available.		

Acute toxicity estimates

Route	ATE value
Not available.	

Irritation/Corrosion

Product/ingredient name	Result	Species	Score
Proprietary mixture.	Skin - Edema	Rabbit	0
	Eyes - Cornea opacity	Rabbit	0
Conclusion/Summary			
Skin	: On basis of test data (404 A	cute Dermal Irritation/Co	errosion): Not
Date of Issue: 30 Nov 2022	Version: 1.0		Page 7 of 50



classified

Eyes	:	On basis of test data (405 Acute Eye Irritation/Corrosion): Not classified.
Respiratory	:	Not available.

Sensitizer

Product/ingredient name		Route of exposure	Species	Result
Proprietary mixture.		skin	Mouse	Not sensitizing
Conclusion/Summary				
Skin	:	Non-sensitizer to skin.		
Respiratory	:	Not available.		

Mutagenicity

Mutagenicity				1
Product/ingredient name		Test	Experiment	Result
Proprietary mixture.		Ames test (TA98, TA100, TA1535,	Subject: Bacteria	Negative
		TA1537, TA1538, WP2uvrA)		
Conclusion/Summary	:	Not available.		
Coroinogoniaity				
Carcinogenicity Conclusion/Summary		Not available.		
Conclusion/Summary	-	Not available.		
Poproductivo toxicity				
Reproductive toxicity Conclusion/Summary		Not available.		
Conclusion/Summary	•	Not available.		
Toratogonicity				
Teratogenicity Conclusion/Summary		Not available.		
Conclusion/Summary	•	Not available.		
Specific target organ toxicity (s	sina	la avpacura)		
Specific target organ toxicity (
Potential acute health effects	epe	aled exposure)		
Eye contact	:	Exposure to airborne concentrations ab	ove statutory or recom	mondod
Lye contact	•	exposure limits may cause irritation of the		menueu
		exposure limits may cause imitation of th	ie eyes.	
Inhalation		Exposure to airborne concentrations ab	ove statutory or recom	mended
innalation	•	exposure limits may cause irritation of the		
			io nooo, in out and fan	90.
Skin contact	:	No known significant effects or critical h	azards.	
Ingestion		No known significant effects or critical h		
5		5		
Symptoms related to the physic	cal.	chemical and toxicological characteria	stics	
Eye contact	:	Adverse symptoms may include the follo		
•		irritation	0	
		redness		
Inhalation	:	Adverse symptoms may include the follo	owing:	
		respiratory tract irritation	-	
		coughing		
Skin contact	:	No specific data.		
Ingestion	:	No specific data.		
-				
Deleveral and investigation of		deles shareds affects from all sufficients and		
	and	d also chronic effects from short and le	ong term exposure	
Short term exposure		NL C - Malla		
Potential immediate	:	Not available.		
effects				
Potential delayed	:	Not available.		
effects				
Long term exposure				

Potential immediate

Potential delayed

effects

effects

: Not available.

: Not available.

Potential chronic health effects

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Not available.		-
Conclusion/Summary	:	Not available.
General	:	Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.
Carcinogenicity	:	No known significant effects or critical hazards.
Mutagenicity	:	No known significant effects or critical hazards.
Teratogenicity	:	No known significant effects or critical hazards.
Developmental effects	:	No known significant effects or critical hazards.
Fertility effects	:	No known significant effects or critical hazards.
Other information	:	Not available.

SECTION 12: Ecological information

12.1 Toxicity

Conclusion/Summary : Not available.

12.2 Persistence and degradability

12.3 Bioaccumulative potential

Not available.

12.4 Mobility in soil
Soil/water partition
coefficient (Koc)
Mobility: Not available.to available: Not available.

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Other adverse effects : No known significant effects or critical hazards.

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s). **13.1 Waste treatment methods**

Methods of disposal	:	The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
Hazardous waste	:	Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.
<u>Packaging</u> Methods of disposal	:	The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

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Special precautions

: This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	ADN	IMDG	ΙΑΤΑ
14.1 UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	No.	No.	No.
Additional information	-		-	-
	ADR/RID Classification Code			

14.6 Special precautions for user

: **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Transport in bulk according to IMO instruments

SECTION 15: Regulatory information

: Not available.

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture <u>EU Regulation (EC) No. 1907/2006 (REACH)</u>

Annex XIV - List of substances subject to authorization

Annex XIV None of the components are listed. Substances of very high concern None of the components are listed.

Annex XVII – Restrictions : Not applicable. on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

<u>Other EU regulations</u> <u>Seveso Directive</u> This product is not controlled under the Seveso Directive. National regulations

GermanyStorage class (TRGS 510): 13Hazard class for water: 1

National Inventory List : This refers to country inventory status or Printronix notifications to specific country inventories.

SAFETY DATA SHEET

Some countries may have	add	itional importation requirements.
Australia	:	All components are listed or exempted.
Canada	:	At least one component is not listed.
China	:	At least one component is not listed.
Japan	:	Japan inventory (ENCS): All components are listed or exempted.
		Japan inventory (ISHL): All components are listed or exempted.
Philippines	:	At least one component is not listed.
Republic of Korea	:	At least one component is not listed.
Taiwan	:	All components are listed or exempted.
United States	:	All components are active or exempted.
15.2 Chemical Safety Assessment	:	This product contains substances for which Chemical Safety Assessments are still required.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms : A	TE = Acute Toxicity Estimate
CL	_P = Classification, Labelling and Packaging Regulation [Regulation (EC) No.
12	272/2008]
DN	MEL = Derived Minimal Effect Level
DN	NEL = Derived No Effect Level
EL	JH statement = CLP-specific Hazard statement
PE	3T = Persistent, Bioaccumulative and Toxic
PN	NEC = Predicted No Effect Concentration
RF	RN = REACH Registration Number
vP	PvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification		
Not classified.			

Full text of abbreviated H statements

Not applicable.

PRINTRONIX

Full text of classifications [CLP/GHS]

Not applicable.

Form : Europe (EU) SDS REACH 2015/830

Notice to reader

The information in this SDS is based on the present state of our knowledge and on current laws. It is always the responsibility of the user to take all necessary steps to fulfill the demands set out in the local rules and legislation. The information in this SDS is meant to be a description of the safety requirements for our product. It is not to be considered a guarantee of the product's properties.

SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier Product name:	Yellow toner powder (cartridge) for LP844C LP654C (Toner powder name: ODY-11-NH)
Product description:	Yellow Toner
1.2 Relevant identified uses of the substance or Material uses:	mixture and uses advised against For electrophotographic printing systems
1.3 Details of the supplier of the safety data she Manufacturer:	et Oki Electric Industry Co., Ltd. 1-7-12 Toranomon, Minato-ku, Tokyo, 105-8460, Japan Tel: 03-3501-3111
Supplier:	Printronix, LLC. 7700 Irvine Center Drive, Suite 700, Irvine, CA 92618 USA
1.4 Emergency telephone number	Tel. 1-800-665-6210 Tel. 1-714-368-2300

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Aquatic Chronic 3, H412

PRINTRONIX

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above. See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Hazard pictograms Signal word Hazard statements	 No signal word. Harmful to aquatic life with long lasting effects.
Precautionary statements	
Prevention	: Avoid release to the environment.
Response	: Not applicable.
Storage	: Not applicable.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazardous ingredients	:
Supplemental label elements	: Not applicable.
Annex XVII - Restrictions on the manufacture,	: Not applicable.
Data of Jacuar 20 Nov 2022	

Date of Issue: 30 Nov 2022 Version: 1.0



placing on the market and use of certain dangerous substances, mixtures and articles

2.3 Other hazards		
Product meets the criteria	:	This mixture does not contain any substances that are assessed to be a
for PBT or vPvB according		PBT or a vPvB.
to Regulation (EC) No.		
1907/2006, Annex XIII		

Other hazards which do : None known. not result in classification

SECTION 3: Composition/information on ingredients

3.2 Mixtures

: Mixture.

Product/ingredient name	Identifiers	%	Classification Regulation (EC) No.1272/2008 [CLP]	Туре
bis(3,5-di-tert-butylsalicylato- O 1,O 2)zinc	REACH #: 01-0000015304-79 EC: 403-360-0 CAS: 42405-40-3 Index: 030-007-00-4	0.25 - 1	Flam. Sol. 1, H228 Acute Tox. 4, H302 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	[1]
			See Section 16 for the full text of the H statements declared above.	

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs or vPvBs or have been assigned a workplace exposure limit and hence require reporting in this section.

<u>Type</u>

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII

[4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

[5] Substance of equivalent concern

[6] Additional disclosure due to company policy

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact

: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs. PRINTRONIX

SDS No. TNR-C0016-PRN (for EU) SAFETY DATA SHEET

Inhalation	Remove victim to fresh air and keep at rest in a position comfortable f breathing. If not breathing, if breathing is irregular or if respiratory arre- occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist of are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 4 hours.	est n r I
Skin contact Ingestion	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse. Wash out mouth with water. Remove dentures if any. Remove victime fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, g small quantities of water to drink. Stop if the exposed person feels sic as vomiting may be dangerous. Do not induce vomiting unless directer to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airw Loosen tight clothing such as a collar, tie, belt or waistband.	ive k ed if
Protection of first-aiders	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mout to-mouth resuscitation.	

4.2 Most important symptoms and effects, both acute and delayed <u>Over-exposure signs/symptoms</u>

Eye contact	:	Adverse symptoms may include the following: irritation redness
Inhalation	:	Adverse symptoms may include the following: respiratory tract irritation coughing
Skin contact Ingestion	:	No specific data. No specific data.
4.3 Indication of any immediate Notes to physician	e mo	edical attention and special treatment needed In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	:	No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media Suitable extinguishing media	: Use dry chemical powder.	
Unsuitable extinguishing media	: Avoid high pressure media which could potentially explosible dust-air mixture.	d cause the formation of a
Date of Issue: 30 Nov 2022	Version: 1.0	Page 14 of 50

5.2 Special hazards arising from the substance or mixture Hazards from the : May form explosible dust-air

Hazards from the substance or mixture	:	May form explosible dust-air mixture if dispersed. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous combustion products	:	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides halogenated compounds metal oxide/oxides
5.3 Advice for firefighters Special precautions for fire-fighters	:	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	:	Fire-fighters should wear appropriate protective equipment and self- contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	·	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing dust. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	:	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
6.2 Environmental precautions	:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.
6.3 Methods and materials for Small spill	cont :	ainment and cleaning up Move containers from spill area. Use spark-proof tools and explosion- proof equipment. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.
Large spill	:	Move containers from spill area. Use spark-proof tools and explosion- proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Avoid creating dusty conditions and prevent wind dispersal. Dispose of via a

licensed waste disposal contractor.

6.4 Reference to other sections

See Section 1 for emergency contact information.
 See Section 8 for information on appropriate personal protective equipment.
 See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

Protective measures	:	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing dust. Avoid release to the environment. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Prevent dust accumulation. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	:	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)

Recommendations	:	Not available.
Industrial sector specific :	:	Not available.
solutions		

SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
Europe No exposure limit value known. Germany bis(3,5-di-tert-butylsalicylato-O 1,O 2)zinc	DFG MAC-values list (Germany, 8/2020). TWA: 2 mg/m ³ 8 hours. Form: inhalable fraction PEAK: 4 mg/m ³ , 4 times per shift, 15 minutes. Form: inhalable fraction
	PEAK: 0.4 mg/m ³ , 4 times per shift, 15 minutes. Form: respirable fraction TWA: 0.1 mg/m ³ 8 hours. Form: respirable fraction
Spain	
No exposure limit value known.	
Austria	
No exposure limit value known.	

Recommended monitoring If this product contains ingredients with exposure limits, personal, procedures workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required. **DNELs/DMELs**

No DNELs/DMELs available. PNECs

No PNECs available.

8.2 Exposure controls
 Appropriate engineering controls
 Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The

engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
 Individual protection measures
 Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the endition

products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields. If operating conditions cause high dust concentrations to be produced, use dust

		goggles. Recommended: Splash goggles.,Safety glasses with side shields.
Skin protection		
Hand protection	:	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. > 8 hours (breakthrough time): natural rubber (latex)
Body protection	:	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Recommended: Lab coat.,overall
Other skin protection	:	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Recommended:
Respiratory protection	:	Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.
Environmental exposure controls	:	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Remark	:	The penetration-time of the recommended gloves depends not only on the material. Also other factors may have influence on the penetration-time, as their thickness or the specific use or conditions (temperature). In any case, certificate materials (for example following EN 374) should be selected. Please ask your supplier, if the gloves are suitable for the intended use.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance Physical state Color Odor	: Solid. [Powde : Yellow. : Odorless.	r.]
Odor threshold pH Melting point Initial boiling point and boiling Range	 Not available. Not applicable Not available. Not available.).
Flash point Evaporation rate Flammability (solid, gas) Upper/lower flammability o	 Not available. Not available. Not available. r Not available. 	

Date of Issue: 30 Nov 2022 Version: 1.0



explosive limits

Vapor density Density Solubility(ies) Partition coefficient: n- octanol/ water	::	Not available. 1.2 g/cm ³ [20°C] Insoluble in the following materials: cold water and hot water. Not available.
Decomposition temperature	:	Not available.
Viscosity (Dynamic)	:	Not available.
Explosive properties	:	Explosive in the presence of the following materials or conditions: open flames, sparks and static discharge.
Oxidizing properties	:	Not available.
0.2 Other information		

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity	:	No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	:	The product is stable.
10.3 Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	:	Explosive in the presence of the following materials or conditions: open flames, sparks and static discharge.
10.5 Incompatible materials	:	Reactive or incompatible with the following materials: oxidizing materials
10.6 Hazardous decomposition products	:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose
Proprietary mixture.	LC50 Inhalation Dusts	Rat	>5.07 mg/l
	and mists		-
	LD50 Oral	Rat	>2000 mg/kg
bis(3,5-di-tert-butylsalicylato-O 1,O 2)zinc	LD50 Dermal	Rabbit	>2000 mg/kg
	LD50 Oral	Rat	1800 mg/kg

Conclusion/Summary : Not available.

Acute toxicity estimates

Route	ATE value
Not available.	

Irritation/Corrosion

Product/ingredient name	Result	Species	Score
Proprietary mixture.	Skin - Edema	Rabbit	0
	Eyes - Cornea opacity	Rabbit	0

Date of Issue: 30 Nov 2022	Version: 1.0	Page 19 of 50



Conclusion/Summary

Skin	:	On basis of test data (404 Acute Dermal Irritation/Corrosion): Not classified
Eyes Respiratory		On basis of test data (405 Acute Eye Irritation/Corrosion): Not classified. Not available.

<u>Sensitizer</u>

Product/ingredient name	Route of exposure	Species	Result
Proprietary mixture.	skin	Mouse	Not sensitizing
Conclusion/Summary			
Skin :	Not available.		
Respiratory :	Not available.		

Mutagenicity

Product/ingredient name		Test	Experiment	Result
Proprietary mixture.		Ames test (TA98, TA100, TA1535, TA1537, TA1538, WP2uvrA)	Experiment: In vitro Subject: Bacteria	Negative
Conclusion/Summary	:	Not available.		
Carcinogenicity Conclusion/Summary	:	Not available.		
Reproductive toxicity Conclusion/Summary	:	Not available.		
<u>Teratogenicity</u> Conclusion/Summary	:	Not available.		
Specific target organ toxicity (s				
Specific target organ toxicity (r Potential acute health effects	repe	ated exposure)		
Eye contact	:	Exposure to airborne concentrations about the exposure limits may cause irritation of the exposure limits may		nended
Inhalation	:	Exposure to airborne concentrations about the exposure limits may cause irritation of the exposure limits may		
Skin contact Ingestion	:	No known significant effects or critical have no known significant e		
Symptoms related to the physi	cal.	chemical and toxicological characteria	stics	
Eye contact	:	Adverse symptoms may include the follo irritation redness		
Inhalation	:	Adverse symptoms may include the follor respiratory tract irritation coughing	owing:	
Skin contact Ingestion	:	No specific data. No specific data.		
Delayed and immediate effects	and	l also chronic effects from short and lo	ong term exposure	
Short term exposure Potential immediate	:	Not available.		
effects Potential delayed effects	:	Not available.		
Long term exposure				



Potential immediate effects Potential delayed	:	Not available.
effects	•	
Potential chronic health eff	ect	S
Not available.		_
Conclusion/Summary	:	Not available.
General	:	Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.
Carcinogenicity	:	No known significant effects or critical hazards.
Mutagenicity	:	No known significant effects or critical hazards.
Teratogenicity	:	No known significant effects or critical hazards.
Developmental effects	:	No known significant effects or critical hazards.
Fertility effects	:	No known significant effects or critical hazards.
Other information	:	Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure	Test
Proprietary mixture.	Acute EC50 >100 mg/l	Daphnia	48 hours	Data on similar product
bis(3,5-di-tert-butylsalicylato-O 1,O 2)	Acute EC50 0.6 mg/l	Algae	72 hours	-
zinc				
	Acute EC50 0.5 mg/l	Daphnia	48 hours	-
	Acute LC50 5.5 mg/l	Fish	96 hours	-
	Acute LC50 4.4 mg/l	Fish	96 hours	-

Conclusion/Summary : Not available.

12.2 Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
bis(3,5-di-tert-butylsalicylato-O 1,O 2)	-	-	Not readily
zinc			

12.3 Bioaccumulative potential

Not available.

12.4 Mobility in soil

Soil/water partition	: Not available.
coefficient (Koc)	
Mobility	: Not available.

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Other adverse effects : No known significant effects or critical hazards.

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

Product Methods of disposal

: The generation of waste should be avoided or minimized wherever

Date of Issue: 30 Nov 202	2 Version: 1.0
Date of 10000. 00 1101 202	

		possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
Hazardous waste Packaging	:	The classification of the product may meet the criteria for a hazardous waste.
Methods of disposal	:	The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
Special precautions	:	This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	ADN	IMDG	ΙΑΤΑ
14.1 UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	No.	No.	No.
Additional information	-		-	-
	ADR/RID Classification Code			

14.6 Special precautions for user	:	Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.
14.7 Transport in bulk according to IMO	:	Not available.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorization

Annex XIV None of the components are listed. Substances of very high concern None of the components are listed.

instruments

Annex XVII – Restrictions : Not applicable. on the manufacture,

Date of Issue: 30 Nov 2022 Version: 1.0

placing on the market	
and use of certain	
dangerous substances, mixtures and articles	
mixtures and articles	
Other EU regulations	
Seveso Directive	
This product is not controlled unc	ler the Seveso Directive.
National regulations	
Germany	
Storage class (TRGS 510)	: 13
Hazard class for water	: 1
National Inventory List	
•	bry status or Printronix notifications to specific country
	may have additional importation requirements.
Australia	All components are listed or exempted.
Canada	: At least one component is not listed.
China	: At least one component is not listed.
Japan	: Japan inventory (ENCS): All components are listed or exempted.
	Japan inventory (ISHL): All components are listed or exempted.
Philippines	: At least one component is not listed.
Republic of Korea	: At least one component is not listed.
Taiwan	: All components are listed or exempted.
United States	: All components are active or exempted.
15.2 Chemical Safety	: This product contains substances for which Chemical Safety
Assessment	Assessments are still required.
	······································

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms :	: ATE = Acute Toxicity Estimate
-	CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.
	1272/2008]
	DMEL = Derived Minimal Effect Level
	DNEL = Derived No Effect Level
	EUH statement = CLP-specific Hazard statement
	PBT = Persistent, Bioaccumulative and Toxic
	PNEC = Predicted No Effect Concentration
	RRN = REACH Registration Number
	vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS

Classification	Justification
Aquatic Chronic 3, H412	Calculation method

Full text of abbreviated H statements

H228	Flammable solid.
H302	Harmful if swallowed.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Full text of classifications [CLP/GHS]

Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Acute 1	AQUATIC HAZARD (ACUTE) - Category 1
Aquatic Chronic 1	AQUATIC HAZARD (LONG-TERM) - Category 1

Date of Issue:	30 Nov 2022	Version: 1.0



Aquatic Chronic 3	AQUATIC HAZARD (LONG-TERM) - Category 3
Flam. Sol. 1	FLAMMABLE SOLIDS - Category 1

Form : Europe (EU) SDS REACH 2015/830

Notice to reader

The information in this SDS is based on the present state of our knowledge and on current laws. It is always the responsibility of the user to take all necessary steps to fulfill the demands set out in the local rules and legislation. The information in this SDS is meant to be a description of the safety requirements for our product. It is not to be considered a guarantee of the product's properties.

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier Product name:	Magenta toner powder (cartridge) for LP844C LP654C (Toner powder name: ODM-11-FH)
Product description:	Magenta Toner
1.2 Relevant identified uses of the substance or Material uses:	mixture and uses advised against For electrophotographic printing systems
1.3 Details of the supplier of the safety data she Manufacturer:	et Oki Electric Industry Co., Ltd. 1-7-12 Toranomon, Minato-ku, Tokyo, 105-8460, Japan Tel: 03-3501-3111
Supplier:	Printronix, LLC. 7700 Irvine Center Drive, Suite 700, Irvine, CA 92618 USA
1.4 Emergency telephone number	Tel. 1-800-665-6210 Tel. 1-714-368-2300

SECTION 2: Hazards identification

2.1	Classification	of the	substance	or	mixture
-----	----------------	--------	-----------	----	---------

Product definition : Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Aquatic Chronic 3, H412

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above. See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Hazard pictograms Signal word Hazard statements	: No signal word. Harmful to aquatic life with long lasting effects.
Precautionary statements	
Prevention	: Avoid release to the environment.
Response	: Not applicable.
Storage	: Not applicable.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazardous ingredients	
Supplemental label	: Not applicable.

SDS No. TNR-C0016-PRN (for EU)

SAFETY DATA SHEET

elements

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

PRINTRONIX

2.3 Other hazards Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

Other hazards which do not result in classification

: None known.

: Not applicable.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

: Mixture.

Product/ingredient name	Identifiers	%	Classification Regulation (EC) No.1272/2008 [CLP]	Туре
bis(3,5-di-tert-butylsalicylato- O 1,O 2)zinc	REACH #: 01-0000015304-79 EC: 403-360-0 CAS: 42405-40-3 Index: 030-007-00-4	0.25 - 1	Flam. Sol. 1, H228 Acute Tox. 4, H302 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1) See Section 16 for the full text of the H statements declared above.	[1]

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs or vPvBs or have been assigned a workplace exposure limit and hence require reporting in this section.

Type

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII

[4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

[5] Substance of equivalent concern

[6] Additional disclosure due to company policy

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures

4.1 Description of first aid measures

and lower eyelids. Che		eyes with plenty of water, occasionally lifting the upper Check for and remove any contact lenses. Continue 10 minutes. Get medical attention if irritation occurs.	
Inhalation		ep at rest in a position comfortable for hing is irregular or if respiratory arrest	
Date of Issue: 30 Nov 2022	Version: 1.0	Page 26 of 50	

	occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Skin contact :	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion :	Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Protection of first-aiders :	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

4.2 Most important symptoms and effects, both acute and delayed <u>Over-exposure signs/symptoms</u>

Eye contact	:	Adverse symptoms may include the following: irritation redness
Inhalation	:	Adverse symptoms may include the following: respiratory tract irritation coughing
Skin contact Ingestion	:	No specific data. No specific data.
•		edical attention and special treatment needed In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	:	No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media		
Suitable extinguishing	:	Use dry chemical powder.
media		

PRINTRONIX

Unsuitable extinguishing : Avoid high pressure media which could cause the formation of a potentially explosible dust-air mixture. media 5.2 Special hazards arising from the substance or mixture Hazards from the : May form explosible dust-air mixture if dispersed. This material is substance or mixture harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain. Hazardous combustion Decomposition products may include the following materials: • products carbon dioxide carbon monoxide nitrogen oxides sulfur oxides halogenated compounds metal oxide/oxides 5.3 Advice for firefighters Special precautions for Promptly isolate the scene by removing all persons from the vicinity of : the incident if there is a fire. No action shall be taken involving any fire-fighters personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. **Special protective** Fire-fighters should wear appropriate protective equipment and selfequipment for fire-fighters contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	 No action shall be taken involving any p training. Evacuate surrounding areas. Keep unne personnel from entering. Do not touch o Shut off all ignition sources. No flares, smoking or flames in hazard a Provide adequate ventilation. Wear app ventilation is inadequate. Put on appropriate personal protective entering 	ecessary and unprotected or walk through spilled material. area. Avoid breathing dust. ropriate respirator when
For emergency responders	: If specialized clothing is required to dea any information in Section 8 on suitable also the information in "For non-emerge	and unsuitable materials. See
6.2 Environmental precautions	: Avoid dispersal of spilled material and rewaterways, drains and sewers. Inform the product has caused environmental polluair). Water polluting material. May be harmful to the environment if relevant	ne relevant authorities if the ition (sewers, waterways, soil or
6.3 Methods and materials for	ontainment and cleaning up	
Small spill	: Move containers from spill area. Use sp proof equipment. Vacuum or sweep up designated, labeled waste container. Di disposal contractor.	material and place in a
Large spill	: Move containers from spill area. Use sp	ark-proof tools and explosion-
Date of Issue: 30 Nov 2022	Version: 1.0	Page 28 of 50

> proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Avoid creating dusty conditions and prevent wind dispersal. Dispose of via a licensed waste disposal contractor.

 6.4 Reference to other sections
 See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling	
Protective measures :	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing dust. Avoid release to the environment. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Prevent dust accumulation. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general : occupational hygiene	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)

Recommendations	:	Not available.
Industrial sector specific :	:	Not available.
solutions		

SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

8.1 Control parameters Occupational exposure limits

Product/ingredient name	Exposure limit values		
Europe			
No exposure limit value known.			
Germany			
bis(3,5-di-tert-butylsalicylato-O 1,O 2)zinc	DFG MAC-values list (Germany, 8/2020). TWA: 2 mg/m ³ 8 hours. Form: inhalable fraction PEAK: 4 mg/m ³ , 4 times per shift, 15 minutes. Form: inhalable fraction PEAK: 0.4 mg/m ³ , 4 times per shift, 15 minutes. Form: respirable fraction TWA: 0.1 mg/m ³ 8 hours. Form: respirable fraction		
Spain			
No exposure limit value known.			
Austria			
No exposure limit value known.			

Recommended monitoring If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to procedures determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required. **DNELs/DMELs** No DNELs/DMELs available. **PNECs** No PNECs available. 8.2 Exposure controls Appropriate engineering : Use only with adequate ventilation. If user operations generate dust,

controlsfumes, gas, vapor or mist, use process enclosures, local exhaust
ventilation or other engineering controls to keep worker exposure to
airborne contaminants below any recommended or statutory limits. The
engineering controls also need to keep gas, vapor or dust
concentrations below any lower explosive limits. Use explosion-proof
ventilation equipment.Individual protection measures
Hygiene measuresWash hands, forearms and face thoroughly after handling chemical
products, before eating, smoking and using the lavatory and at the end
of the working period. Appropriate techniques should be used to remove
potentially contaminated clothing. Wash contaminated clothing before
reusing. Ensure that eyewash stations and safety showers are close to
the workstation location.

Eye/face protection	:	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields. If operating conditions cause high dust concentrations to be produced, use dust goggles. Recommended: Splash goggles.,Safety glasses with side shields.
Skin protection Hand protection	:	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. > 8 hours (breakthrough time): natural rubber (latex)
Body protection	:	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Recommended: Lab coat.,overall
Other skin protection	:	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Recommended:
Respiratory protection	:	Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.
Environmental exposure controls	:	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Remark	:	The penetration-time of the recommended gloves depends not only on the material. Also other factors may have influence on the penetration-time, as their thickness or the specific use or conditions (temperature). In any case, certificate materials (for example following EN 374) should be selected. Please ask your supplier, if the gloves are suitable for the intended use.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance		
Physical state	:	Solid. [Powder.]
Color	:	Magenta
Odor	:	Odorless.
Odor threshold	:	Not available.
рН	:	Not applicable.
Melting point	:	Not available.
		-

Date of Issue: 30 Nov 2022 Version: 1.0

PRINTRONIX

Initial boiling point and boiling range	:	Not available.
Flash point Evaporation rate Flammability (solid, gas) Upper/lower flammability or explosive limits	:	Not available. Not available. Not available. Not available.
Vapor density Density Solubility(ies) Partition coefficient: n- octanol/ water	:	Not available. 1.2 g/cm ³ [20°C] Insoluble in the following materials: cold water and hot water. Not available.
Decomposition temperature Viscosity (Dynamic) Explosive properties		Not available. Not available. Explosive in the presence of the following materials or conditions: open flames, sparks and static discharge.
Oxidizing properties	:	Not available.
9.2 Other information No additional information.		

SECTION 10: Stability and reactivity

10.1 Reactivity	:	No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	:	The product is stable.
10.3 Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	:	Explosive in the presence of the following materials or conditions: open flames, sparks and static discharge.
10.5 Incompatible materials	:	Reactive or incompatible with the following materials: oxidizing materials
10.6 Hazardous decomposition products	:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Product/ingredient name	Result	Species	Dose	
Proprietary mixture.	LC50 Inhalation Dusts and mists	Rat	>5.09 mg/l	
	LD50 Oral	Rat	>2000 mg/kg	
bis(3,5-di-tert-butylsalicylato-O 1,O 2)zinc	LD50 Dermal	Rabbit	>2000 mg/kg	
	LD50 Oral	Rat	1800 mg/kg	

Date of Issue: 30 Nov 2022 Version: 1.0 Page 32 of 50

Acute toxicity estimates

Route	ATE value
Not available.	

Irritation/Corrosion

Product/ingredient name		Result	Species	Score
Proprietary mixture.		Skin - Edema	Rabbit	0
		Eyes - Cornea opacity	Rabbit	0
Conclusion/Summary Skin	:	On basis of test data (404 Acute Derr classified	nal Irritation/Cc	prrosion): Not
Eyes	:	On basis of test data (405 Acute Eye	Irritation/Corros	sion): Not classified.
Respiratory	:	Not available.		

Sensitizer

Product/ingredient name		Route of exposure	Species	Result
Proprietary mixture.		skin	Mouse	Not sensitizing
Conclusion/Summary				
Skin	:	Not sensitizing		
Respiratory	:	Not available.		

Mutagenicity

Product/ingredient name		Test	Experiment	Result
Proprietary mixture.		Ames test (TA98, TA100, TA1535, TA1537, TA1538, WP2uvrA)	Subject: Bacteria	Negative
Conclusion/Summary	:	Not available.		
<u>Carcinogenicity</u> Conclusion/Summary	:	Not available.		
<u>Reproductive toxicity</u> Conclusion/Summary	:	Not available.		
<u>Teratogenicity</u> Conclusion/Summary	:	Not available.		
Specific target organ toxicity (si Specific target organ toxicity (re Potential acute health effects				
Eye contact	:	Exposure to airborne concentrations about the exposure limits may cause irritation of the exposure limits may		nended
Inhalation	:	Exposure to airborne concentrations about the exposure limits may cause irritation of the exposure limits may		
Skin contact	:	No known significant effects or critical h	azards.	
Ingestion	:	No known significant effects or critical h	azards.	
Symptoms related to the physic	al.	chemical and toxicological characteris	stics	
Eye contact	:	Adverse symptoms may include the follo irritation redness		
Inhalation	:	Adverse symptoms may include the follo respiratory tract irritation coughing	owing:	

PRINTRONIX

SDS No. TNR-C0016-PRN (for EU) SAFETY DATA SHEET

Skin contact Ingestion	:	No specific data. No specific data.
Delayed and immediate effects	and	also chronic effects from short and long term exposure
Short term exposure		
Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.
Long term exposure		
Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.
Potential chronic health eff	ect	<u>8</u>
Not available.		
Conclusion/Summary	:	Not available.
General	:	Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.
Carcinogenicity	:	No known significant effects or critical hazards.
Mutagenicity	:	No known significant effects or critical hazards.
Teratogenicity	:	No known significant effects or critical hazards.
Developmental effects	:	No known significant effects or critical hazards.
Fertility effects	:	No known significant effects or critical hazards.
Other information	:	Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure	Test
Proprietary mixture.	Acute EC50 >100 mg/l	Daphnia	48 hours	Data on similar product
bis(3,5-di-tert-butylsalicylato-O 1,O 2)	Acute EC50 0.6 mg/l	Algae	72 hours	-
zinc				
	Acute EC50 0.5 mg/l	Daphnia	48 hours	-
	Acute LC50 5.5 mg/l	Fish	96 hours	-
	Acute LC50 4.4 mg/l	Fish	96 hours	-
Conclusion/Summarv : Not	t available.			

Conclusion/Summary : Not available.

12.2 Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
bis(3,5-di-tert-butylsalicylato-O 1,O 2)	-	-	Not readily
zinc			

12.3 Bioaccumulative potential

Not available.

12.4 Mobility in soil		
Soil/water partition	: Not availab	le.
coefficient (Koc)		
Mobility	: Not availab	e.

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Other adverse effects : No known significant effects or critical hazards.

Date of Issue: 30 Nov 2022Version: 1.0Page 34 of 50

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s). **13.1 Waste treatment methods**

Product

Product	
Methods of disposal	: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
Hazardous waste	: The classification of the product may meet the criteria for a hazardous waste.
Packaging	
Methods of disposal	: The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
Special precautions	 This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	ADN	IMDG	ΙΑΤΑ
14.1 UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	No.	No.	No.
Additional information	-		-	-
	ADR/RID Classification Code			

14.6 Special precautions for user	:	Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.
14.7 Transport in bulk according to IMO instruments	:	Not available.

SAFETY DATA SHEET

SECTION 15: Regulatory information

PRINTRONIX

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture <u>EU Regulation (EC) No. 1907/2006 (REACH)</u> <u>Annex XIV - List of substances subject to authorization</u> <u>Annex XIV</u>			
None of the components are lis			
Substances of very high cond			
None of the components are lis	ied.		
Annex XVII – Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: Not applicable.		
Other EU regulations Seveso Directive This product is not controlled und National regulations	der the Seveso Directive.		
<u>Germany</u>			
Storage class (TRGS 510)			
Hazard class for water	: 1		
National Inventory List			
	; 		
	bry status or Printronix notifications to specific country		
	may have additional importation requirements.		
Australia	: All components are listed or exempted.		
Canada	: At least one component is not listed.		
China	: At least one component is not listed.		
Japan	: Japan inventory (ENCS): All components are listed or exempted.		
	Japan inventory (ISHL): All components are listed or exempted.		
Philippines	: At least one component is not listed.		
Republic of Korea	: All components are listed or exempted.		
Taiwan	: All components are listed or exempted.		
United States	: All components are active or exempted.		
15.2 Chemical Safety Assessment	: This product contains substances for which Chemical Safety Assessments are still required.		

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms	: ATE = Acute Toxicity Estimate
	CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.
	1272/2008]
	DMEL = Derived Minimal Effect Level
	DNEL = Derived No Effect Level
	EUH statement = CLP-specific Hazard statement
	PBT = Persistent, Bioaccumulative and Toxic
	PNEC = Predicted No Effect Concentration
	RRN = REACH Registration Number
	vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	JUSTIFICATION
Date of Issue: 30 Nov 2022 Version: 1.0	Page 36 of 50

Aquatic Chronic 3, H412	Calculation method	
Full text of abbreviated H sta	tements	

П220	
H302	Harmful if swallowed.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Full text of classifications [CLP/GHS]

Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Acute 1	AQUATIC HAZARD (ACUTE) - Category 1
Aquatic Chronic 1	AQUATIC HAZARD (LONG-TERM) - Category 1
Aquatic Chronic 3	AQUATIC HAZARD (LONG-TERM) - Category 3
Flam. Sol. 1	FLAMMABLE SOLIDS - Category 1

Form : Europe (EU) SDS REACH 2015/830

Notice to reader

The information in this SDS is based on the present state of our knowledge and on current laws. It is always the responsibility of the user to take all necessary steps to fulfill the demands set out in the local rules and legislation. The information in this SDS is meant to be a description of the safety requirements for our product. It is not to be considered a guarantee of the product's properties.

SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier Product name:	Cyan toner powder (cartridge) for LP844C LP654C (Toner powder name: ODC-11-MH)
Product description:	Cyan Toner
1.2 Relevant identified uses of the substance or Material uses:	mixture and uses advised against For electrophotographic printing systems
1.3 Details of the supplier of the safety data she Manufacturer:	et Oki Electric Industry Co., Ltd. 1-7-12 Toranomon, Minato-ku, Tokyo, 105-8460, Japan Tel: 03-3501-3111
Supplier:	Printronix, LLC. 7700 Irvine Center Drive, Suite 700, Irvine, CA 92618 USA
1.4 Emergency telephone number	Tel. 1-800-665-6210 Tel. 1-714-368-2300

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Aquatic Chronic 3, H412

PRINTRONIX

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above. See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Hazard pictograms Signal word Hazard statements	 No signal word. Harmful to aquatic life with long lasting effects. 	
Precautionary statements		
Prevention	: Avoid release to the environment.	
Response	: Not applicable.	
Storage	: Not applicable.	
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.	
Hazardous ingredients	:	
Supplemental label elements	: Not applicable.	
Annex XVII - Restrictions on the manufacture,	: Not applicable.	
Data of Jacuar 20 Nov 2022	Version: 1.0	0

Date of Issue: 30 Nov 2022 Version: 1.0



placing on the market and use of certain dangerous substances, mixtures and articles

Product meets the criteria : This mixture does not contain any substances that are assessed to be a PBT or a vPvB	2.3 Other hazards		
for PBT or vPvB according PBT or a vPvB	Product meets the criteria	:	This mixture does not contain any substances that are assessed to be a
	for PBT or vPvB according		PBT or a vPvB.
to Regulation (EC) No.	• • • •		
1907/2006, Annex XIII	1907/2006, Annex XIII		

Other hazards which do : None known. not result in classification

SECTION 3: Composition/information on ingredients

3.2 Mixtures

: Mixture.

Product/ingredient name	Identifiers	%	Classification Regulation (EC) No.1272/2008 [CLP]	Туре
bis(3,5-di-tert-butylsalicylato- O 1,O 2)zinc	REACH #: 01-0000015304-79 EC: 403-360-0 CAS: 42405-40-3 Index: 030-007-00-4	0.25 - 1	Flam. Sol. 1, H228 Acute Tox. 4, H302 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1) See Section 16 for the full text of the H statements declared above.	[1]

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs or vPvBs or have been assigned a workplace exposure limit and hence require reporting in this section.

Type

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII

[4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

[5] Substance of equivalent concern

[6] Additional disclosure due to company policy

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact	: Immediately flush eyes with plenty of water, o and lower eyelids. Check for and remove any to rinse for at least 10 minutes. Get medical a	contact lenses. Continue
Inhalation	: Remove victim to fresh air and keep at rest in breathing. If not breathing, if breathing is irreg occurs, provide artificial respiration or oxygen may be dangerous to the person providing aid resuscitation. Get medical attention if adverse are severe. If unconscious, place in recovery attention immediately. Maintain an open airwa	ular or if respiratory arrest by trained personnel. It I to give mouth-to-mouth health effects persist or position and get medical
Date of Issue: 30 Nov 2022	Version: 1.0	Page 39 of 50

	such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Skin contact	: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
4.2 Most important symptoms a <u>Over-exposure signs/symptom</u>	nd effects, both acute and delayed <u>s</u>
Eye contact	: Adverse symptoms may include the following: irritation redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing
Skin contact Ingestion	No specific data.No specific data.
4.3 Indication of any immediate Notes to physician	 medical attention and special treatment needed In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	: No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media Suitable extinguishing media	:	Use dry chemical powder.		
Unsuitable extinguishing media	:	Avoid high pressure media which could cause the formation of a potentially explosible dust-air mixture.		
5.2 Special hazards arising from the substance or mixture				

Hazards from the : May form explosible dust-air mixture if dispersed. This material is

	Date of Issue: 30 Nov 2022	Version: 1.0	Page 40 of 50
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substance or mixture		harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous combustion products	:	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides halogenated compounds metal oxide/oxides
5.3 Advice for firefighters Special precautions for fire-fighters	:	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	:	Fire-fighters should wear appropriate protective equipment and self- contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing dust. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	:	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
6.2 Environmental precautions	:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.
6.3 Methods and materials for	cont	ainment and cleaning up
Small spill	:	Move containers from spill area. Use spark-proof tools and explosion- proof equipment. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.
Large spill	:	Move containers from spill area. Use spark-proof tools and explosion- proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Avoid creating dusty conditions and prevent wind dispersal. Dispose of via a licensed waste disposal contractor.

6.4 Reference to other sections

PRINTRONIX

: See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

Protective measures	 Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing dust. Avoid release to the environment. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Prevent dust accumulation. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8 for additional information on hygiene measures.

7.3 Specific end use(s)

Recommendations	:	Not available.
Industrial sector specific :	:	Not available.
solutions		

SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

8.1 Control parameters

Date of Issue: 30 Nov 2022 Version: 1.0

SAFETY DATA SHEET

Occupational exposure limits						
Product/ingredien	nt name	Exposure limit values				
Europe No exposure limit value known. Germany bis(3,5-di-tert-butylsalicylato-O 1,O 2)zinc		DFG MAC-values list (Germany, 8/2020). TWA: 2 mg/m ³ 8 hours. Form: inhalable fraction PEAK: 4 mg/m ³ , 4 times per shift, 15 minutes. Form: inhalable fraction PEAK: 0.4 mg/m ³ , 4 times per shift, 15 minutes. Form: respirable fraction TWA: 0.1 mg/m ³ 8 hours. Form: respirable fraction				
Spain No exposure limit value known. Austria No exposure limit value known.						
Recommended monitoring procedures	workplace atmos determine the eff and/or the neces should be made European Standa assessment of e comparison with Standard EN 140 and use of proce biological agents - General require measurement of	If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances				
DNELs/DMELs No DNELs/DMELs available. PNECs No PNECs available.	red.					
8.2 Exposure controls Appropriate engineering controls	fumes, gas, vapo ventilation or oth airborne contami engineering cont concentrations b	Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.				
Individual protection measures Hygiene measures	: Wash hands, for products, before of the working pe potentially contai reusing. Ensure	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.				
Eye/face protection	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields. If operating conditions cause high dust concentrations to be produced, use dust goggles. Recommended: Splash goggles.,Safety glasses with side					

Skin protection		shields.
Hand protection		Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. > 8 hours (breakthrough time): natural rubber (latex)
Body protection	:	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Recommended: Lab coat.,overall
Other skin protection	•	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Recommended:
Respiratory protection	:	Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.
Environmental exposure controls	:	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Remark	:	The penetration-time of the recommended gloves depends not only on the material. Also other factors may have influence on the penetration-time, as their thickness or the specific use or conditions (temperature). In any case, certificate materials (for example following EN 374) should be selected. Please ask your supplier, if the gloves are suitable for the intended use.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance		
Physical state	:	Solid. [Powder.]
Color	:	Cyan
Odor	:	Odorless.
Odor threshold	:	Not available.
рН	:	Not applicable.
Melting point	:	Not available.
Initial boiling point and	:	Not available.
boiling range		
Flash point	:	Not available.
Evaporation rate	:	Not available.
Flammability (solid, gas)	:	Not available.
Upper/lower flammability or	:	Not available.
explosive limits		
Date of Issue: 30 Nov 2022	Ver	sion: 1.0

: Not available. Vapor density Density : 1.2 g/cm³ [20°C] Solubility(ies) : Insoluble in the following materials: cold water and hot water. Partition coefficient: n-: Not available. octanol/ water : Not available. Decomposition temperature : Not available. Viscosity (Dynamic) : Explosive in the presence of the following materials or conditions: open **Explosive properties** flames, sparks and static discharge. **Oxidizing properties** : Not available. 9.2 Other information

No additional information.

PRINTRONIX

SECTION 10: Stability and reactivity

10.1 Reactivity	:	No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	:	The product is stable.
10.3 Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	:	Explosive in the presence of the following materials or conditions: open flames, sparks and static discharge.
10.5 Incompatible materials	:	Reactive or incompatible with the following materials: oxidizing materials
10.6 Hazardous decomposition products	:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose
Proprietary mixture.	LC50 Inhalation Dusts	Rat	>4.97 mg/l
	and mists		
	LD50 Oral	Rat	>2000 mg/kg
bis(3,5-di-tert-butylsalicylato-O 1,O 2)zinc	LD50 Dermal	Rabbit	>2000 mg/kg
	LD50 Oral	Rat	1800 mg/kg

Conclusion/Summary : Not available.

Acute toxicity estimates

[Route	ATE value
	Not available.	

Irritation/Corrosion

Product/ingredient name	Result	Species	Score
Proprietary mixture.	Eyes - Cornea opacity	Rabbit	0
	Skin - Edema	Rabbit	0
Date of Issue: 30 Nov 2022 Version: 1.0 Page 45 of 50			

Conclusion/Summary Skin	: On basis of test data (404 Acute Dermal Irritation/Corro classified	sion): Not
Eyes	: On basis of test data (405 Acute Eye Irritation/Corrosion): Not classified.
Respiratory	: Not available.	

<u>Sensitizer</u>

Product/ingredient name		Route of exposure	Species	Result
Proprietary mixture.		skin	Mouse	Not sensitizing
Conclusion/Summary				
Skin	: 1	Not sensitizing		
Respiratory	: 1	Not available.		

Mutagenicity

Product/ingredient name		Test	Experiment	Result
Proprietary mixture.		Ames test (TA98, TA100, TA1535, TA1537, TA1538, WP2uvrA)	Experiment: In vitro Subject: Bacteria	Negative
Conclusion/Summary	:	Not available.		
Carcinogenicity Conclusion/Summary	:	Not available.		
Reproductive toxicity				
Conclusion/Summary	:	Not available.		
Feratogenicity				
Conclusion/Summary	:	Not available.		
Specific target organ toxicity (Specific target organ toxicity (Potential acute health effects				
Eye contact	:	Exposure to airborne concentrations a exposure limits may cause irritation of		mended
Inhalation	:	Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.		
Skin contact Ingestion	:	No known significant effects or critical No known significant effects or critical		
Symptoms related to the phys	sical.	chemical and toxicological character	ristics	
Eye contact	:	Adverse symptoms may include the fo irritation redness		
Inhalation	:	Adverse symptoms may include the fo respiratory tract irritation coughing	llowing:	
Skin contact	:	No specific data.		
Ingestion	:	No specific data.		
	s and	also chronic effects from short and	long term exposure	
Short term exposure Potential immediate	:	Not available.		
	:	Not available. Not available.		



Long term exposure Potential immediate effects Potential delayed effects	:	Not available. Not available.
Potential chronic health eff	ect	<u>S</u>
Not available.		N1. (9. 1).
Conclusion/Summary	:	Not available.
General	:	Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.
Carcinogenicity	:	No known significant effects or critical hazards.
Mutagenicity	:	No known significant effects or critical hazards.
Teratogenicity	:	No known significant effects or critical hazards.
Developmental effects	:	No known significant effects or critical hazards.
Fertility effects	:	No known significant effects or critical hazards.
Other information	:	Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure	Test
Proprietary mixture.	Acute EC50 >100 mg/l	Daphnia	48 hours	Data on similar product
bis(3,5-di-tert-butylsalicylato-O 1,O 2)	Acute EC50 0.6 mg/l	Algae	72 hours	-
zinc				
	Acute EC50 0.5 mg/l	Daphnia	48 hours	-
	Acute LC50 5.5 mg/l	Fish	96 hours	-
	Acute LC50 4.4 mg/l	Fish	96 hours	-

Conclusion/Summary :

: Not available.

12.2 Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
bis(3,5-di-tert-butylsalicylato-O 1,O 2)	-	-	Not readily
zinc			

12.3 Bioaccumulative potential

Not available.

12.4 Mobility in soil

Soil/water partition: Not available.coefficient (Koc): Not available.Mobility: Not available.

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Other adverse effects : No known significant effects or critical hazards.

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s). **13.1 Waste treatment methods**

Date of Issue: 30 Nov 2022 Version: 1.0

Product		
Methods of disposal	:	The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
Hazardous waste	:	The classification of the product may meet the criteria for a hazardous waste.
Packaging		
Methods of disposal	:	The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
Special precautions	:	This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	ADN	IMDG	ΙΑΤΑ
14.1 UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	No.	No.	No.
Additional information	- ADR/RID Classification Code		-	-
14.6 Special precautions	containers that are	user's premises: a upright and secure vhat to do in the eve	e. Ensure that pers	ons transporting

14.7 Transport in bulk : Not available. according to IMO instruments

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture <u>EU Regulation (EC) No. 1907/2006 (REACH)</u>

Annex XIV - List of substances subject to authorization

<u>Annex XIV</u> None of the components are listed. <u>Substances of very high concern</u> None of the components are listed.

Annex XVII – Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:	Not applicable.
Other EU regulations		
Seveso Directive		
This product is not controlled un	der	the Seveso Directive.
National regulations		
<u>Germany</u>		
Storage class (TRGS 510)		13
Hazard class for water	:	1
	•	
National Inventory List	:	
This refers to country invent	ory	status or Printronix notifications to specific country
inventories. Some countrie	s m	nay have additional importation requirements.
Australia	:	All components are listed or exempted.
Canada	:	At least one component is not listed.
China	:	At least one component is not listed.
Japan	:	Japan inventory (ENCS): All components are listed or exempted.
		Japan inventory (ISHL): All components are listed or exempted.
Philippines	:	At least one component is not listed.
Republic of Korea	:	At least one component is not listed.
Taiwan	:	All components are listed or exempted.
United States	:	At least one component is not listed.
15.2 Chemical Safety Assessment	:	This product contains substances for which Chemical Safety Assessments are still required.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms : ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level EUH statement = CLP-specific Hazard statement PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Aquatic Chronic 3, H412	Calculation method

Full text of abbreviated H statements

H228	Flammable solid.
H302	Harmful if swallowed.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Full text of classifications [CLP/GHS]

Date of Issue: 30 Nov 2022 Version: 1.0	Page 49 of 50
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Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Acute 1	AQUATIC HAZARD (ACUTE) - Category 1
Aquatic Chronic 1	AQUATIC HAZARD (LONG-TERM) - Category 1
Aquatic Chronic 3	AQUATIC HAZARD (LONG-TERM) - Category 3
Flam. Sol. 1	FLAMMABLE SOLIDS - Category 1

Form : Europe (EU) SDS REACH 2015/830

Notice to reader

The information in this SDS is based on the present state of our knowledge and on current laws. It is always the responsibility of the user to take all necessary steps to fulfill the demands set out in the local rules and legislation. The information in this SDS is meant to be a description of the safety requirements for our product. It is not to be considered a guarantee of the product's properties.