



Cover Sheet: Safety Data Sheet

Trade Name: BradyJet™

Brady Part Numbers:

Catalog Number	Y-number
P-CMY-1	Y5133847
P-K-1	Y5133848
P-1CMY2K	Y5778528
P-2CMY1K	Y5778529
J7300-EU	Y5302981
J7300-W-EU	Y5302982

The attached SDSs also apply to future products that include the P-CMY-1 and P-K-1 ink cartridges.

Safety Data Sheet

1. Identification of the substance/mixture and of the company/undertaking

1.1. Product Identifier

Product name : INK CARTRIDGE BRADY, PIGMENT
Part numbers : P-CMY-1 (SJBBDT1XXA)
REACH Status : EU (REACH): All components of the toner formulation are registered, pre-registered or exempt under REACH. Pre-registered chemicals will be registered between 2011 and 2018.
Product type : Liquid

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use : Inkjet printer
Area of application : Consumer applications

1.3. Details of the supplier of the safety data sheet

Manufacturer : FUNAI ELECTRIC CO., LTD.
Address : 7-7-1, Nakagaito, Daito, Osaka 574-0013, Japan
Tel : +81-72-870-4459
Information about the product : Product Environmental Office
Fax : +81-72-870-5817
e-mail : funai_green@funai.co.jp

1.4. Emergency Telephone Number

Austria	112	Belgium	112
Bulgaria	112	Croatia	112
Cyprus	112	Czech Republic	155
Denmark	112	Estonia	112
Finland	112	France	112
Greece	112	Hungary	112
Italy	112	Latvia	112
Lithuania	112	Luxembourg	112
Malta	112	Netherlands	112
Poland	112	Portugal	112
Romania	112	Slovakia	112
Slovenia	112	Spain	112
Sweden	112	United Kingdom	112
Iceland	112	Liechtenstein	145
Norway	113	Switzerland	145

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2. Hazards identification

● Cyan Ink

Classification of the substance or mixture

Classification : Skin Sens. 1A, STOT SE 3

Label Elements

Labelling according to Regulation (EC) No 1272/2008

Hazard pictograms :



Signal word :

Warning

Hazard statements :

H317 May cause an allergic skin reaction.

H336 May cause drowsiness or dizziness.

Precautionary Statements - EU (§28, 1272/2008) :

P280 Wear protective gloves/protective clothing/eye protection/face protection.

Other Information :

None known

Other Hazards

: None

● Magenta Ink

Classification of the substance or mixture

Classification : Skin Sens. 1A, STOT SE 3

Label Elements

Labelling according to Regulation (EC) No 1272/2008

Hazard pictograms :



Signal word :

Warning

Hazard statements :

H317 May cause an allergic skin reaction.

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H336 May cause drowsiness or dizziness.

Precautionary Statements - EU (§28, 1272/2008)

P280 Wear protective gloves/protective clothing/eye protection/face protection.

Other Information :
 None known

Other Hazards : None

● **Yellow Ink**

Classification of the substance or mixture

Classification : Skin Sens. 1A, Repr. 1B, STOT SE 3

Label Elements

Labelling according to Regulation (EC) No 1272/2008

Hazard pictograms :



Signal word :
 Danger

Hazard statements :

- H317 May cause an allergic skin reaction.
- H336 May cause drowsiness or dizziness
- H360D May damage the unborn child.

Precautionary Statements - EU (§28, 1272/2008) :

P280 Wear protective gloves/protective clothing/eye protection/face protection.

Other Information :
 None known

Other Hazards : None known.

3. Composition/information on ingredients

● **Cyan Ink**

Product/ingredient name	Identifiers	Weight %	Classification (Reg.1272/2008)
1-Methoxy-2-propanol	EC: 203-539-1 CAS: 107-98-2	≥1 - <3	STOT SE 3 H336
2-methyl-2H-isothiazol-3-one	EC: 220-239-6 CAS: 2682-20-4	≥0.01 - <0.02	Aquatic Acute 1 H400 Skin Corr. 1B H314 Acute Tox. 3 H301 Acute Tox. 3 H311 Eye Dam. 1 H318 Aquatic Chronic 1 H410 Acute Tox. 2 H330 Skin Sens. 1A H317

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1,2-Benzisothiazolin-3-one	EC: 220-120-9 CAS: 2634-33-5	≥0.008 - <0.01	Acute Tox. 4 H302 Skin Irrit. 2 H315 Eye Dam. 1 H318 Skin Sens. 1 H317 Aquatic Acute 1 H400
Propylidynetrimethanol	EC: 201-074-9 CAS: 77-99-6	≥1.2 - <2.5	Repr. 2 H361 Repr. 2 H361fd
1,3-Propanediol	EC: 207-997-3 CAS: 504-63-2	≥8 - <12	Skin Irrit 2 H315
1-(2-Hydroxyethyl)-2-pyrrolidone	EC: 222-359-4 CAS: 3445-11-2	≥5 - <8	Eye Irrit. 2 H319 Skin Irrit. 2 H315 STOT SE 3 H335

● **Magenta Ink**

Product/ingredient name	Identifiers	Weight %	Classification (Reg.1272/2008)
1-Methoxy-2-propanol	EC: 203-539-1 CAS: 107-98-2	≥1 - <3	STOT SE 3 H336
2-methyl-2H-isothiazol-3-one	EC: 220-239-6 CAS: 2682-20-4	≥0.01 - <0.02	Aquatic Acute 1 H400 Skin Corr. 1B H314 Acute Tox. 3 H301 Acute Tox. 3 H311 Eye Dam. 1 H318 Aquatic Chronic 1 H410 Acute Tox. 2 H330 Skin Sens. 1A H317
Propylidynetrimethanol	EC: 201-074-9 CAS: 77-99-6	≥1.2 - <2.5	Repr. 2 H361 Repr. 2 H361fd
1,3-Propanediol	EC: 207-997-3 CAS: 504-63-2	≥8 - <12	Skin Irrit 2 H315
1-(2-Hydroxyethyl)-2-pyrrolidone	EC: 222-359-4 CAS: 3445-11-2	≥5 - <8	Eye Irrit. 2 H319 Skin Irrit. 2 H315 STOT SE 3 H335
1,2-Benzisothiazolin-3-one	EC: 220-120-9 CAS: 2634-33-5	≥0.001 - <0.003	Acute Tox. 4 H302 Skin Irrit. 2 H315 Eye Dam. 1 H318 Skin Sens. 1 H317 Aquatic Acute 1 H400

● **Yellow Ink**

Product/ingredient name	Identifiers	Weight %	Classification (Reg.1272/2008)
1-Methoxy-2-propanol	EC: 203-539-1 CAS: 107-98-2	≥1 - <3	STOT SE 3 H336

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2-Methoxy-1-propanol	EC: 216-455-5 CAS: 1589-47-5	≥0.2 - <0.4	Repr. 1B H360D STOT SE 3 H335 Skin Irrit. 2 H315 Eye Dam. 1 H318
2-methyl-2H-isothiazol-3-one	EC: 220-239-6 CAS: 2682-20-4	≥0.01 - <0.02	Aquatic Acute 1 H400 Skin Corr. 1B H314 Acute Tox. 3 H301 Acute Tox. 3 H311 Eye Dam. 1 H318 Aquatic Chronic 1 H410 Acute Tox. 2 H330 Skin Sens. 1A H317
1,3-Propanediol	EC: 207-997-3 CAS: 504-63-2	≥7 - <10	Skin Irrit 2 H315
1-(2-Hydroxyethyl)-2-pyrrolidone	EC: 222-359-4 CAS: 3445-11-2	≥5 - <8	Eye Irrit. 2 H319 Skin Irrit. 2 H315 STOT SE 3 H335
1,2-Benzisothiazolin-3-one	EC: 220-120-9 CAS: 2634-33-5	≥0.001 - <0.003	Acute Tox. 4 H302 Skin Irrit. 2 H315 Eye Dam. 1 H318 Skin Sens. 1 H317 Aquatic Acute 1 H400

See Section 16 for the full text of the H statements declared above.

4. First-aid measures

4.1 Description of first aid measures

- General** : In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and seek medical advice.
- 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.
- 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 symptoms occurs.
- 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.

4.2 Most important symptoms and effects, both acute and delayed

- ; The most important known symptoms and effects are described in the labelling (see section 2.2).

4.3 Indication of any immediate 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.

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5. Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media : Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media : None known.

5.2. Special hazards arising from the substance or mixture

Special hazards : In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous combustion products : Decomposition products may include the following materials: carbon dioxide, carbon monoxide, nitrogen oxides

5.3. Advice for firefighters

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.

Auto-ignition temperature : Not available.

Flammable limits : Not available.

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 spilt material. Put on appropriate personal protective equipment.

For emergency responders : If specialised 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 spilt 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 material for containment and cleaning up

Small spill : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licenced waste disposal contractor.

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Large spill : Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with noncombustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licenced 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.

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).
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 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. 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 unlabelled containers. Use appropriate containment to avoid environmental contamination.

7.3. Specific end uses

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

8. Exposure controls/personal protection

8.1. Control parameters

Exposure Limits

Product/ingredient name	Exposure limit values
Water Soluble Organic Solvent	None
Water Soluble Dye	None

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Recommended monitoring procedures : 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 will also be required

DNELs/DMELs

Product/ingredient name	Type	Exposure	Value	Population	Effects
1,2-Benzisothiazolin-3-one	DNEL	Long term Dermal	0.345 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0.966 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	1.2mg/m ³	General population	Systemic
	DNEL	Long term Inhalation	6.81 mg/m ³	Workers	Systemic

PNECs : No PNECs available.

8.2. Exposure controls

Appropriate engineering controls

Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Individual protection measures, such as personal protective equipment

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.

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.

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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.
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.
Respiratory Protection	: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
Thermal hazards	: 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.
Environmental exposure controls	: Do not allow to enter drains or watercourses.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid.
Colour	: Cyan, Magenta, Yellow
Odour	: Faint odour.
Odour threshold	: No data available
pH	: No data available
Melting Point/ Freezing point	: No data available
Initial boiling point and Boiling range	: No data available
Flash point	: No data available
Evaporation rate	: No data available
Flammability(solid/gas)	: No data available
Upper/lower flammability or explosive limits	: No data available
Vapour pressure	: No data available
Vapour density	: No data available
Relative density	: No data available
Solubility	: Miscible in water.
Partition coefficient (n-octanol/ water)	: Not available.

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Auto ignition temp : Not available.
 Decomposition temperature : Not available.
 Viscosity : Not available.
 Explosive properties : Not available.
 Oxidising properties : Not available.

9.2. Other Information

No additional information.

10. Stability and reactivity

Reactivity : None
 Chemical stability : Stable
 Possibility of Hazardous Reactions : Under normal conditions of storage and use, hazardous reactions will not occur.
 Conditions to avoid : None known.
 Incompatible materials : oxidising materials.
 Hazardous decomposition products : Carbon monoxide, carbon dioxide, unidentified organics.
 Hazardous polymerisation : None known.
 Additional guidelines : None

11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
1-(2-hydroxyethyl)pyrrolidin-2-one	LD50 Oral	Rat	14430 mg/kg	-
1,3-Propanediol	LD50 Oral	Rat	15800 mg/kg	-
1-Methoxy-2-propanol	LD50 Oral	Rat	2973 – 7986 mg/kg	
2-Methoxy-1-propanol	LD50 Oral	Rat	5710 mg/kg	-
	LD50 Dermal	Rabbit	5660 mg/kg	-

Corrosion/irritation

Product/ingredient name	Result	Species	Score	Exposure	Observation
1-(2-hydroxyethyl)pyrrolidin-2-one	Eyes - Mild irritant	Rabbit	-	100 milligrammes	-

2-Methoxy-1-propanol : Skin Irrit. 2, Eye Dam. 1

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Sensitisation

2-methyl-2H-isothiazol-3-one : Skin Sensitisation. 1A; H317: C ≥ 0,0015 % / M = 10 / M = 1
1-Methoxy-2-propanol : STOT Sensitisation. 3 : C ≥ 1.0 %

Germ cell mutagenicity : No data available

Carcinogenicity : No data available

Reproductive toxicity

2-Methoxy-1-propanol : Repr. 1B

Specific target organ toxicity –

single exposure

1-Methoxy-2-propanol : STOT Sensitisation. 3

2-Methoxy-1-propanol : STOT Sensitisation. 3

Specific target organ toxicity –

repeated exposure

2-Methoxy-1-propanol : Repr. 1B

Aspiration hazard : Not available.

Information on the likely routes of exposure : Routes of entry anticipated: Oral, Dermal.

Potential acute health effects

Inhalation : No known significant effects or critical hazards.

Ingestion : No known significant effects or critical hazards.

Skin contact : No known significant effects or critical hazards.

Eye contact : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation : No specific data.

Ingestion : No specific data.

Skin contact : No specific data.

Eye contact : 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.

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Potential delayed effects	: Not available.
Potential chronic health effects	: Not available.
Conclusion/Summary	: Not available.
General	: No known significant effects or critical hazards.
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	: Nanomaterials in the EU Market

12. Ecological information

Toxicity

Conclusion/Summary : Do not allow to enter drains or watercourses.
 Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Product/ingredient name	Result	Species	Exposure
1,2-Benzisothiazolin-3-one	Acute EC50 4.4 to 4.9 ppm Fresh water	Daphnia - magna	48 hours
	Acute LC50 1.6 to 2.8 ppm Fresh water	Fish – Oncorhynchus mykiss	96 hours

The product has not been tested. Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Persistence and degradability

Conclusion/Summary : The product has not been tested. Classification according to Regulation (EC) No. 1272/2008[CLP/GHS]

Bioaccumulative potential : Not available.

Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available.

Mobility : Not available.

PBT and vPvB assessment

PBT : Not available.

vPvB : Not available.

Endocrine disrupting properties

Conclusion/Summary : Not available.

Other information : No known significant effects or critical hazards.

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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 minimised 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 nonrecyclable products via a licenced waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Disposal considerations : Do not allow to enter drains or watercourses. Dispose of according to all federal, state and local applicable regulations. If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned. For further information, contact your local waste authority.

Hazardous waste : Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 91/689/EEC.

Packaging

Methods of disposal : The generation of waste should be avoided or minimised 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. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

14. Transport information

	ADR/RID	ADN	IMDG	IATA
14.1 UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2 Proper shipping name	-	-	-	-
14.3 Transport hazard class	-	-	-	-
14.4 Packing group	No.	No.	No.	No.
14.5 Environmental hazards	-	-	-	-
Additional information	-	-	-	-

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.

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14.7 Bulk transport Annex II of MARPOL 73/78 and IBC code : Not available.

15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

(EC) No 1907/2006 Authorisation

Annex XIV - List of substances subject to authorisation

Substances of very high concern : 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

Europe inventory : All ingredients are listed on the European Inventory of Existing Commercial Substances (EINECS) list, have been registered on the European List of New Chemical Substances (ELINCS), or are exempt.

15.2. International regulations lists

TSCA (USA) : All ingredients are listed on the Toxic Substances Control Act (TSCA) inventory, have been registered, or are exempt.

TSCA (USA) : All ingredients are listed on the Toxic Substances Control Act (TSCA) inventory, have been registered, or are exempt.

SARA / EPCRA (USA) : None of the ingredients in this product has a final reportable quantity (RQ) under Emergency Planning and Community Right-to Know Act (EPCRA)-Section 302:Extremely Hazardous Substances (EHS) or notification requirements for EHS under Section 304.

California Proposition 65 : This product contains no known materials at levels which the State of California has found to cause cancer, birth defects or other reproductive harm – California Proposition 65.

Philippine Regulation : All components of this product are registered in the Philippine Inventory of Chemicals and Chemical Substances (PICCS), and no component is listed in any of the following controlled substances list in the Philippines: Chemical Control Orders (CCO), Ozone Depleting Substance (ODS) or Alternative to ODS, Priority Chemical List (PCL), Controlled Precursor & Essential Chemical Substances (CPECS) and Controlled Chemicals & Explosives Ingredients (CCEI) as per Philippine Economic Zone Authority - Environmental Safety Group's Quicklist of Regulated Substances - ESG.1.M.001, Latest revision.

15.3. Chemical safety assessment

This product contains substances for which Chemical Safety Assessments may be required.

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16. Other information

Version	: 1
Date of issue/ Date of revision	: March 22, 2024
Date of previous issue	: March 22, 2024
Abbreviations and acronyms	ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] DNEL = Derived No Effect Level EUH statement = CLP-specific Hazard statement PNEC = Predicted No Effect Concentration RRN = REACH Registration Number
Key literature references and sources for data:	Regulation (EC) No. 1272/2008 [CLP] International transport regulations Occupational exposure limits
Full text of abbreviated H statements	H301 Toxic if swallowed H302 Harmful if swallowed H311 Toxic in contact with skin H314 Causes severe skin burns and eye damage H315 Causes skin irritation. H317 May cause an allergic skin reaction H318 Causes serious eye damage H319 Causes serious eye irritation. H330 Fatal if inhaled H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness H360D May damage the unborn child. H361 Suspected of damaging fertility or the unborn child H361fd Suspected of damaging fertility. Suspected of damaging the unborn child (if swallowed). H400 Very toxic to aquatic life H410 Very toxic to aquatic life with long-lasting effects

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Full text of classifications
[CLP/GHS]

Acute Tox. 2 H302, H330 ACUTE TOXICITY – Category 2
Acute Tox. 3 H301, H311 ACUTE TOXICITY – Category 3
Acute Tox. 4 H302 ACUTE TOXICITY – Category 4
Eye Irrit. 2 H315, H319 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2
Skin Sens. 1 H317 SKIN SENSITISATION – Category 1
Skin Sens. 1A H317 SKIN SENSITISATION – Category 1A
Skin Corr. 1B H314 SKIN CORROSION – Category 1B
Eye Dam. 1 H318 SERIOUS EYE DAMAGE / EYE IRRITATION – CATEGORY 1
STOT SE 3 H335, H336 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 3
Repr. 1B H360D REPRODUCTIVE TOXICITY – Category 1B
Repr. 2 H361, H361fd REPRODUCTIVE TOXICITY – Category 2
Aquatic Acute 1 H400 HAZARDOUS TO THE AQUATIC ENVIRONMENT – ACUTE HAZARD – Category 1
Aquatic Chronic 1 H410 HAZARDOUS TO THE AQUATIC ENVIRONMENT – CHRONIC HAZARD – Category 1

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user.

All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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1. Identification of the substance/mixture and of the company/undertaking

1.1. Product Identifier

Description : INK CARTRIDGE BRADY, PIGMENT
Part numbers : P-K-1 (SJBKD1XXA)
REACH Status : EU (REACH): All components of the toner formulation are registered, pre-registered or exempt under REACH. Pre-registered chemicals will be registered between 2011 and 2018.
Product type : Liquid

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use : Inkjet printer
Area of application : Consumer applications

1.3. Details of the supplier of the safety data sheet

Manufacturer : FUNAI ELECTRIC CO., LTD.
Address : 7-7-1, Nakagaito, Daito, Osaka 574-0013, Japan
Tel : +81-72-870-4459
Information about the product : Product Environmental Office
Fax : +81-72-870-5817
e-mail : funai_green@funai.co.jp

1.4. Emergency Telephone Number

Austria	112	Belgium	112
Bulgaria	112	Croatia	112
Cyprus	112	Czech Republic	155
Denmark	112	Estonia	112
Finland	112	France	112
Greece	112	Hungary	112
Italy	112	Latvia	112
Lithuania	112	Luxembourg	112
Malta	112	Netherlands	112
Poland	112	Portugal	112
Romania	112	Slovakia	112
Slovenia	112	Spain	112
Sweden	112	United Kingdom	112
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2. Hazards identification

Classification of mixture : Skin Sens. 1A

Label element

Labelling according to Regulation (EC) No 1272/2008

Hazard pictograms :



Signal word :

Warning

Hazard statements :

H317 May cause an allergic skin reaction.

Precautionary Statements - EU (§28, 1272/2008) :

P280 Wear protective gloves/protective clothing/eye protection/face protection.

Other Information :

None known

Other Hazards : None

3. Composition/information on ingredients

Product/ingredient name	Identifiers	Weight %	Classification (Reg.1272/2008)
Carbon black	EC: 215-609-9 CAS: 1333-86-4	≥1 - <5	Carc. 2 H351 STOT RE 1 H372
1,2-Benzisothiazolin-3-one	EC: 220-120-9 CAS: 2634-33-5	≥0.01 - <0.02	Acute Tox. 4 H302 Skin Irrit. 2 H315 Eye Dam. 1 H318 Skin Sens. 1 H317 Aquatic Acute 1 H400
Triethylene glycol	EC: 203-953-2 CAS: 112-27-6	≥3 - <7	Eye Irrit. 2 H319 Skin Irrit. 2 H315 STOT SE 3 H335 Acute Tox. 4 H332
Diethylene glycol	EC: 203-872-2 CAS: 111-46-6	≥0.02 - <0.08	Acute Tox. 4 H302 STOT RE 2 H373
1,3-Propanediol	EC: 207-997-3 CAS: 504-63-2	≥8 - <12	Skin Irrit 2 H315
Polyalkyleneoxide Copolymer	EC: 614-827-5 CAS: 68938-54-5	≥0.1 - <0.8	Acute Tox. 4 H332 Aquatic Chronic 2 H411
Polyalkylene Glycol	EC: 608-068-9 CAS: 27252-80-8	≥0.07 - <0.3	Acute Tox. 4 H302 Skin Corr. 1A H314 Eye Dam 1 H318
2-methyl-2H-isothiazol-3-one	EC: 220-239-6 CAS: 2682-20-4	≥0.01 - <0.02	Aquatic Acute 1 H400 Skin Corr. 1B H314 Acute Tox. 3 H301

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		Acute Tox. 3 H311 Eye Dam. 1 H318 Aquatic Chronic 1 H410 Acute Tox. 2 H330 Skin Sens. 1A H317
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4. First-aid measures

4.1 Description of first aid measures

- General : In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and seek medical advice.
- 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.
- 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 symptoms occurs.
- 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.

4.2 Most important symptoms and effects, both acute and delayed

: The most important known symptoms and effects are described in the labelling (see section 2.2).

4.3 Indication of any immediate 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.

5. Fire-fighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Use an extinguishing agent suitable for the surrounding fire.
- Unsuitable extinguishing media : None known.

5.2. Special hazards arising from the substance or mixture

- Special hazards : In a fire or if heated, a pressure increase will occur and the container may burst.
- Hazardous combustion products : Decomposition products may include the following materials: carbon dioxide, carbon monoxide, nitrogen oxides

5.3. Advice for firefighters

- 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.
- Auto-ignition temperature : Not available.

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Flammable limits : Not available.

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 spilt material. Put on appropriate personal protective equipment.

For emergency responders : If specialised 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 spilt 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 material for containment and cleaning up

Small spill : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licenced waste disposal contractor.

Large spill : Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with noncombustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licenced 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.

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).

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

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additional information on hygiene measures.

7.2. Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. 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. 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 unlabelled containers. Use appropriate containment to avoid environmental contamination.

7.3. Specific end uses

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

8. Exposure controls/personal protection

8.1. Control parameters

Exposure Limits

Product/ingredient name	Exposure limit values
Water Soluble Organic Solvent	None
Water Soluble Dye	None

Recommended monitoring procedures : 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 will also be required

DNELs/DMELs

Product/ingredient name	Type	Exposure	Value	Population	Effects
1,2-Benzisothiazolin-3-one	DNEL	Long term Dermal	0.345 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0.966 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	1.2mg/m ³	General population	Systemic
	DNEL	Long term Inhalation	6.81 mg/m ³	Workers	Systemic

PNECs : No PNECs available.

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8.2. Exposure controls

Appropriate engineering controls

Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Individual protection measures, such as personal protective equipment

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.
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.
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.
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.
Respiratory Protection	: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
Thermal hazards	: 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.
Environmental exposure controls	: Do not allow to enter drains or watercourses.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid.
Colour	: Black
Odour	: Faint odour.

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Odour threshold	: No data available
pH	: No data available
Melting Point	: No data available
Freezing point	: Approximately -8°C
Initial boiling point	: No data available
Boiling range	: Approximately 98.0°C
Flash point	: No data available
Evaporation rate	: No data available
Flammability(solid/gas)	: No data available
Upper/lower flammability	: No data available
Explosive limits	: No data available
Vapour pressure	: No data available
Vapour density	: No data available
Specific Gravity	: Approximately 1.0
Solubility	: Miscible in water
Partition coefficient	: No data available
Auto ignition temp	: No data available
Viscosity	: No data available
Oxidising properties	: No data available

9.2. Other Information

No additional information.

10. Stability and reactivity

Reactivity	: None
Chemical stability	: Stable
Possibility of Hazardous Reactions	: None
Conditions to avoid	: None known.
Incompatible materials	: None known
Hazardous decomposition products	: Carbon monoxide, carbon dioxide, unidentified organics.
Hazardous polymerisation	: Will not occur.
Additional guidelines	: None.

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11. Toxicological information

Information on toxicological effects

Acute toxicity oral rat LD50 (mg/kg) : >5000

Product/ingredient name	Result	Species	Dose	Exposure
1,3-Propanediol	LD50 Oral	Rat	15800 mg/kg	-
Carbon Black	LD50 Oral	Rat	15400 mg/kg	-
	LD50 Dermal	Rabbit	3 g/kg	-

Skin corrosion/irritation : Not an irritant.

Serious eye damage/eye irritation : Not an irritant. Not known significant effects or critical hazards.

Sensitisation

2-Methyl-4-isothiazolin-3-one Skin Sensitisation. 1A; H317: C ≥ 0,0015 % / M = 10 / M = 1

Germ cell mutagenicity : No data available

Carcinogenicity

Carbon Black Carc 2 H351

Reproductive toxicity : No data available

Specific target organ toxicity – single exposure : No data available

Specific target organ toxicity – repeated exposure

Carbon Black STOT RE 1 H372

Aspiration hazard : As with exposure to high concentrations of any mist, minimal irritation of the respiratory tract may occur. Not known significant effects or critical hazards.

Other information : Nanomaterials in the EU Market

12. Ecological information

Toxicity

Conclusion/Summary : Do not allow to enter drains or watercourses.
 Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Product/ingredient name	Result	Species	Exposure
1,2-Benzisothiazolin-3-one	Acute EC50 4.4 to 4.9 ppm Fresh water	Daphnia - magna	48 hours
	Acute LC50 1.6 to 2.8 ppm Fresh water	Fish – Oncorhynchus mykiss	96 hours

The product has not been tested. Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

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Persistence and degradability

Conclusion/Summary	: The product has not been tested. Classification according to Regulation (EC) No. 1272/2008[CLP/GHS]
Bioaccumulative potential	: Not available.
Mobility in soil	
Soil/water partition coefficient (K _{oc})	: Not available.
Mobility	: Not available.
PBT and vPvB assessment	
PBT	: Not available.
vPvB	: Not available.
Endocrine disrupting properties	
Conclusion/Summary	: Not available.
Other information	: No known significant effects or critical hazards.

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 minimised 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 nonrecyclable products via a licenced waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
Disposal considerations	: Do not allow to enter drains or watercourses. Dispose of according to all federal, state and local applicable regulations. If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned. For further information, contact your local waste authority.
Hazardous waste	: Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 91/689/EEC.
Packaging	
Methods of disposal	: The generation of waste should be avoided or minimised 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. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

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14. Transport information

	ADR/RID	ADN	IMDG	IATA
14.1 UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2 Proper shipping name	-	-	-	-
14.3 Transport hazard class	-	-	-	-
14.4 Packing group	No.	No.	No.	No.
14.5 Environmental hazards	-	-	-	-
Additional information	-	-	-	-

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 Bulk transport Annex II of MARPOL 73/78 and IBC code : Not available.

15. Regulatory information

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

Annex XIV - List of substances subject to authorisation

Substances of very high concern : 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

Europe inventory : All ingredients are listed on the European Inventory of Existing Commercial Substances (EINECS) list, have been registered on the European List of New Chemical Substances (ELINCS), or are exempt.

15.2. International regulations lists

TSCA (USA) : All ingredients are listed on the Toxic Substances Control Act (TSCA) inventory, have been registered, or are exempt.

TSCA (USA) : All ingredients are listed on the Toxic Substances Control Act (TSCA) inventory, have been registered, or are exempt.

SARA / EPCRA (USA) : None of the ingredients in this product has a final reportable quantity (RQ) under Emergency Planning and Community Right-to Know Act (EPCRA)- Section 302:Extremely Hazardous Substances (EHS) or notification requirements for EHS under Section 304.

California Proposition 65 : This product contains no known materials at levels which the State of California has found to cause cancer, birth defects or other reproductive harm – California Proposition 65.

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Philippine Regulation

: All components of this product are registered in the Philippine Inventory of Chemicals and Chemical Substances (PICCS), and no component is listed in any of the following controlled substances list in the Philippines: Chemical Control Orders (CCO), Ozone Depleting Substance (ODS) or Alternative to ODS, Priority Chemical List (PCL), Controlled Precursor & Essential Chemical Substances (CPECS) and Controlled Chemicals & Explosives Ingredients (CCEI) as per Philippine Economic Zone Authority - Environmental Safety Group's Quicklist of Regulated Substances - ESG.1.M.001, Latest revision.

15.3. Chemical safety assessment

This product contains substances for which Chemical Safety Assessments may be required.

16. Other information

Version : 1
Date of issue/ Date of revision : March 22, 2024
Date of previous issue : March 22, 2024

Abbreviations and acronyms

ATE = Acute Toxicity Estimate
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.1272/2008]
DNEL = Derived No Effect Level
EUH statement = CLP-specific Hazard statement
PNEC = Predicted No Effect Concentration
RRN = REACH Registration Number
Regulation (EC) No. 1272/2008 [CLP]

Key literature references and sources for data:

International transport regulations
Occupational exposure limits

Full text of abbreviated H statements

H301 Toxic if swallowed
H302 Harmful if swallowed
H311 Toxic in contact with skin
H314 Causes severe skin burns and eye damage
H315 Causes skin irritation
H317 May cause an allergic skin reaction
H318 Causes serious eye damage
H319 Causes serious eye irritation
H330 Fatal if inhaled
H332 Harmful if inhaled
H335 May cause respiratory irritation
H351 Suspected of causing cancer
H372 Causes damage to organs through prolonged or repeated exposure
H373 May cause damage to organs through prolonged or repeated exposure
H400 Very toxic to aquatic life
H410 Very toxic to aquatic life with long-lasting effects
H411 Toxic to aquatic life with long-lasting effects

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Full text of classifications
[CLP/GHS]

Acute Tox. 2 H330 ACUTE TOXICITY – Category 2
Acute Tox. 3 H301, H311 ACUTE TOXICITY – Category 3
Acute Tox. 4 H302, H332 ACUTE TOXICITY – Category 4
Skin Irrit. 2 H315 SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1 H317 SKIN SENSITISATION – Category 1
Skin Sens. 1A H317 SKIN SENSITISATION – Category 1A
Skin Corr. 1A H314 SKIN CORROSION – Category 1A
Skin Corr. 1B H314 SKIN CORROSION – Category 1B
Eye Irrit. 2 H319 SERIOUS EYE DAMAGE/ EYE IRRITATION -
Category 2
Eye Dam 1 H318 SERIOUS EYE DAMAGE / EYE IRRITATION –
CATEGORY 1
Carc. 2 H351 Carcinogenicity - Category 2
STOT SE 3 H335 SPECIFIC TARGET ORGAN TOXICITY
(SINGLE EXPOSURE) - Category 3
STOT RE 1 H372 SPECIFIC TARGET ORGAN TOXICITY –
(REPEATED EXPOSURE) - Category 1
STOT RE 2 H373 SPECIFIC TARGET ORGAN TOXICITY –
(REPEATED EXPOSURE) - Category 2
Aquatic Acute 1 H400 HAZARDOUS TO THE AQUATIC
ENVIRONMENT – ACUTE HAZARD – Category 1
Aquatic Chronic 1 H410 HAZARDOUS TO THE AQUATIC
ENVIRONMENT – CHRONIC HAZARD – Category 1
Aquatic Chronic 2 H411 HAZARDOUS TO THE AQUATIC
ENVIRONMENT – CHRONIC HAZARD – Category 2

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user.

All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.