

# SAFETY DATA SHEET

## Potassium Cyanide Granular

Draslovka

Version	Revision Date:	SDS Number (Internal):	Date of last issue: 2022/04/07
5.0	2022/06/30	1331311-00040	Date of first issue: 2017/02/27

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Potassium Cyanide Granular

SDS-Identcode : 130000027494

#### Recommended use of the chemical and restrictions on use

Recommended use : Chemical intermediate  
Metal surface treatment products, including galvanic and electroplating products  
Hardener  
Plating agents and metal surface treating agents  
Recycling  
Processing aid, mining

Restrictions on use : Use in production of weapons or narcotics  
For professional users only.

#### Manufacturer or supplier's details

Company : Covoro Mining Solutions – A Draslovka Company

Address : 2571 Fite Road  
Memphis, TN 38127 United States of America (USA)

Telephone : (901) 357-1546

Emergency telephone number : 1-800-424-9300 (outside the US – CHEMTREC – 1-703-527-3887)

### 2. HAZARDS IDENTIFICATION

#### GHS Classification

Corrosive to metals : Category 1

Acute toxicity (Oral) : Category 2

Acute toxicity (Inhalation) : Category 2

Acute toxicity (Dermal) : Category 1

Short-term (acute) aquatic hazard : Category 1

Long-term (chronic) aquatic hazard : Category 1

#### GHS label elements

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Hazard pictograms

:



Signal word

:

Danger

Hazard statements

:

H290 May be corrosive to metals.  
H300 + H310 + H330 Fatal if swallowed, in contact with skin or if inhaled.  
H400 Very toxic to aquatic life.  
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

:

### Prevention:

P234 Keep only in original packaging.  
P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.  
P262 Do not get in eyes, on skin, or on clothing.  
P264 Wash the contact area thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P271 Use only outdoors or in a well-ventilated area.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/ protective clothing.  
P284 Wear respiratory protection.

### Response:

P301 + P310 + P330 IF SWALLOWED: Immediately call a POISON CENTER/ doctor. Rinse mouth.  
P302 + P352 + P310 IF ON SKIN: Wash with plenty of water. Immediately call a POISON CENTER/ doctor.  
P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.  
P320 Specific treatment is urgent (see supplemental first aid instructions on this label).  
P361 + P364 Take off immediately all contaminated clothing and wash it before reuse.  
P390 Absorb spillage to prevent material damage.  
P391 Collect spillage.

### Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.  
P405 Store locked up.  
P406 Store in corrosive resistant (decided by the manufacturer or authority) container, as this is a metal corrosive material.

### Disposal:

P501 Dispose of contents and container according to wastes control act.

### Other hazards which do not result in classification

Contact with acids liberates very toxic gas.

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Contact with water liberates toxic gas.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Substance

#### Components

Chemical name	Common Name	CAS-No.	Concentration (% w/w)
Potassium Cyanide	No data available	151-50-8	$\geq 90 - \leq 100$
Potassium hydroxide	Caustic pot-ash	1310-58-3	$\geq 0.1 - < 0.5$

### 4. FIRST AID MEASURES

- General advice : In the case of accident or if you feel unwell, seek medical advice immediately.  
When symptoms persist or in all cases of doubt seek medical advice.
- In case of eye contact : Flush eyes with water as a precaution.  
Get medical attention if irritation develops and persists.
- In case of skin contact : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.  
Get medical attention immediately.  
Wash clothing before reuse.  
Destroy contaminated shoes.
- If inhaled : If inhaled, remove to fresh air.  
If not breathing, give artificial respiration.  
If breathing is difficult, give oxygen.  
Get medical attention immediately.
- If swallowed : If swallowed, DO NOT induce vomiting unless directed to do so by medical personnel.  
Call a physician or poison control centre immediately.  
Rinse mouth thoroughly with water.  
Never give anything by mouth to an unconscious person.
- Most important symptoms and effects, both acute and delayed : Redness  
Rash  
Nausea  
Headache  
Breathing difficulties  
Palpitation  
Weakness  
Fatal if swallowed, in contact with skin or if inhaled.
- Protection of first-aiders : First Aid responders should pay attention to self-protection,

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and use the recommended personal protective equipment when the potential for exposure exists (see section 8).

Notes to physician : If the victim is conscious and shows symptoms of exposure, administer oxygen. If the victim is unconscious but breathing, administer oxygen and antidote. If victim is not breathing, use resuscitator and administer the antidote simultaneously. Call a physician. Keep victim under supervision according the physician's advice. If victim has swallowed cyanide and is conscious: Rinse the mouth with water. Administer activated charcoal slurry.

### 5. FIREFIGHTING MEASURES

#### Suitable and unsuitable extinguishing media

Suitable extinguishing media : Alcohol-resistant foam  
Dry chemical

Unsuitable extinguishing media : Carbon dioxide (CO<sub>2</sub>)  
Water

Specific hazards during fire-fighting : Exposure to combustion products may be a hazard to health.  
Contact with water liberates toxic gas.

Hazardous combustion products : Carbon oxides  
Nitrogen oxides (NO<sub>x</sub>)  
Metal oxides

Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.  
Remove undamaged containers from fire area if it is safe to do so.  
Evacuate area.

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.  
Use personal protective equipment.

### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Evacuate personnel to safe areas.  
Only trained personnel should re-enter the area.  
Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8).

Environmental precautions : Avoid release to the environment.  
Prevent further leakage or spillage if safe to do so.  
Retain and dispose of contaminated wash water.  
Local authorities should be advised if significant spillages

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cannot be contained.

Methods and materials for containment and cleaning up	: Surround spill with absorbents and place a damp covering over the area to minimise entry of the material into the air. Add excess liquid to allow the material to enter into solution. Soak up with inert absorbent material. Clean up remaining materials from spill with suitable absorbent. Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.
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### 7. HANDLING AND STORAGE

Technical measures	: See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation	: If sufficient ventilation is unavailable, use with local exhaust ventilation.
Advice on safe handling	: Do not get on skin or clothing. Do not breathe dust, fume, gas, mist, vapours or spray. Do not swallow. Do not get in eyes. Wash skin thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment Keep container tightly closed. Keep away from water. Protect from moisture. Keep away from metals. Store in original container or corrosive resistant and/or lined container. Do not eat, drink or smoke when using this product. Keep only in original packaging. Take care to prevent spills, waste and minimize release to the environment.
Conditions for safe storage	: Keep in properly labelled containers. Store in original container. Store in a closed container. Store locked up. Keep tightly closed. Keep in a dry place. Keep in a cool, well-ventilated place. Store in accordance with the particular national regulations.
Materials to avoid	: Do not store with the following product types: Strong oxidizing agents

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Further information on storage stability : No decomposition if stored and applied as directed.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Potassium Cyanide	151-50-8	TWA	5 mg/m <sup>3</sup> (Cyanide)	KR OEL
	Further information: Substances designated by 'Skin' may be absorbed into the bloodstream through the skin, mucous membrane and eye and contribute to the overall effect. (Skin notation does not apply to the skin irritant)			
		C	5 mg/m <sup>3</sup> (Cyanide)	ACGIH
Potassium hydroxide	1310-58-3	C	2 mg/m <sup>3</sup>	KR OEL
		C	2 mg/m <sup>3</sup>	ACGIH

Other ingredients, which are listed in section 3 but not listed in this section, do not have established occupational exposure limit values.

**Engineering measures** : Minimize workplace exposure concentrations.  
If sufficient ventilation is unavailable, use with local exhaust ventilation.

**Personal protective equipment. Among the following personal protective equipment, the PPEs which require safety certification need to be certified by KOSHA.**

Respiratory protection : Use respiratory protection (dust mask) unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.

Filter type : Particulates type

Eye protection : Wear the following personal protective equipment:  
Safety glasses  
If splashes are likely to occur, wear:  
Face-shield

Hand protection  
Material : butyl-rubber

Remarks : Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work. For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday.

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	Breakthrough time is not determined for the product. Change gloves often!
Skin and body protection	: Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential. Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc).
Hygiene measures	: If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use.

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### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: solid, granular, pellets
Colour	: white
Odour	: odourless
Odour Threshold	: No data available
pH	: 10.8 (as aqueous solution)
Melting point/freezing point	: 634.5 °C
Initial boiling point and boiling range	: No data available
Flash point	: Not applicable
Evaporation rate	: Not applicable
Flammability (solid, gas)	: Will not burn
Upper explosion limit / Upper flammability limit	: No data available
Lower explosion limit / Lower flammability limit	: No data available
Vapour pressure	: Not applicable
Solubility(ies) Water solubility	: 417 g/l (20 °C)

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Relative vapour density	:	Not applicable
Relative density	:	1.52 (20 °C)
Partition coefficient: n-octanol/water	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity Viscosity, kinematic	:	Not applicable
Explosive properties	:	Not explosive
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.
Molecular weight	:	No data available
Metal corrosion rate	:	Corrosive to metals
Particle size	:	No data available

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### 10. STABILITY AND REACTIVITY

Chemical stability and possibility of hazardous reactions	:	Contact with water liberates toxic gas. Stable if used as directed. Follow precautionary advice and avoid incompatible materials and conditions. Can react with strong oxidizing agents. Reacts with water. May be corrosive to metals.
Conditions to avoid	:	Exposure to moisture
Incompatible materials	:	Oxidizing agents Acids Water
Hazardous decomposition products	:	No hazardous decomposition products are known.

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### 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure	:	Skin contact Ingestion Eye contact
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### Health hazard information

#### Acute toxicity

Fatal if swallowed, in contact with skin or if inhaled.

#### Product:

Acute oral toxicity	: Acute toxicity estimate: 7.54 mg/kg Method: Calculation method
Acute inhalation toxicity	: Acute toxicity estimate: 0.0503 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method
Acute dermal toxicity	: Acute toxicity estimate: 14.38 mg/kg Method: Calculation method

#### Components:

##### Potassium Cyanide:

Acute oral toxicity	: LD50 (Rat): 7.49 mg/kg
Acute inhalation toxicity	: Acute toxicity estimate: 0.005 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Expert judgement Remarks: Based on data from similar materials
Acute dermal toxicity	: LD50 (Rabbit): 14.29 mg/kg

##### Potassium hydroxide:

Acute oral toxicity	: LD50 (Rat): 333 mg/kg
Acute inhalation toxicity	: Assessment: Corrosive to the respiratory tract.

### Skin corrosion/irritation

#### Components:

##### Potassium hydroxide:

Species	: Rabbit
Result	: Corrosive after 3 minutes or less of exposure

### Serious eye damage/eye irritation

#### Components:

##### Potassium hydroxide:

Species	: Rabbit
Result	: Irreversible effects on the eye

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### Respiratory or skin sensitisation

#### Components:

##### Potassium hydroxide:

Test Type	: Intracutaneous test
Exposure routes	: Skin contact
Species	: Guinea pig
Result	: negative

### Carcinogenicity

#### Components:

##### Potassium Cyanide:

Species	: Rat
Application Route	: Ingestion
Exposure time	: 2 Years
Result	: negative
Remarks	: Based on data from similar materials

### Germ cell mutagenicity

#### Components:

##### Potassium Cyanide:

Genotoxicity in vitro	: Test Type: In vitro mammalian cell gene mutation test Result: negative
Genotoxicity in vivo	: Test Type: Mammalian bone marrow sister chromatid exchange Species: Rat Application Route: Ingestion Result: negative Remarks: Based on data from similar materials

##### Potassium hydroxide:

Genotoxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES) Result: negative
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### Reproductive toxicity

#### Components:

##### Potassium Cyanide:

Effects on fertility	: Test Type: Fertility Species: Rat Application Route: inhalation (dust/mist/fume) Result: negative Remarks: Based on data from similar materials
Effects on foetal develop-	: Test Type: Embryo-foetal development

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ment

Species: Rat  
Application Route: Ingestion  
Result: negative

### STOT - single exposure

No data available

### STOT - repeated exposure

#### Components:

##### Potassium Cyanide:

Exposure routes	: Ingestion
Target Organs	: Thyroid
Assessment	: Shown to produce significant health effects in animals at concentrations of 10 mg/kg bw or less.

### Repeated dose toxicity

#### Components:

##### Potassium Cyanide:

Species	: Rat
NOAEL	: 0.3 mg/kg
LOAEL	: 0.9 mg/kg
Application Route	: Ingestion
Exposure time	: 15 Days

### Aspiration toxicity

No data available

### Experience with human exposure

No data available

### Toxicology, Metabolism, Distribution

No data available

### Neurological effects

No data available

### Further information

No data available

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

#### Components:

##### Potassium Cyanide:

Toxicity to fish	: LC50 (Oncorhynchus mykiss (rainbow trout)): 27 µg/l Exposure time: 96 h Remarks: Based on data from similar materials
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Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia pulex (Water flea)): 8 mg/l  
Exposure time: 48 h

M-Factor (Acute aquatic toxicity) : 10

M-Factor (Chronic aquatic toxicity) : 10

Toxicity to microorganisms : EC50: 2.3 mg/l  
Exposure time: 30 min

### Persistence and degradability

#### Components:

#### Potassium Cyanide:

Biodegradability : Result: Inherently biodegradable.  
Biodegradation: 99 %  
Exposure time: 42 d  
Remarks: Based on data from similar materials

#### Bioaccumulative potential

No data available

#### Mobility in soil

No data available

#### Other adverse effects

No data available

## 13. DISPOSAL CONSIDERATIONS

#### Disposal methods

Waste from residues : Dispose of contents and container according to wastes control act.

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.  
If not otherwise specified: Dispose of as unused product.

#### Disposal precautions

Dispose of contents and container according to wastes control act.

## 14. TRANSPORT INFORMATION

#### International Regulations

#### UNRTDG

UN number : UN 1680

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Proper shipping name : POTASSIUM CYANIDE, SOLID  
Class : 6.1  
Packing group : I  
Labels : 6.1

### IATA-DGR

UN/ID No. : UN 1680  
Proper shipping name : Potassium cyanide, solid  
Class : 6.1  
Packing group : I  
Labels : Toxic  
Packing instruction (cargo aircraft) : 673  
Packing instruction (passenger aircraft) : 666

### IMDG-Code

UN number : UN 1680  
Proper shipping name : POTASSIUM CYANIDE, SOLID  
(Potassium Cyanide)  
Class : 6.1  
Packing group : I  
Labels : 6.1  
EmS Code : F-A, S-A  
Marine pollutant : yes

### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

### National Regulations

Refer to section 15 for specific national regulation.

### Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

## 15. REGULATORY INFORMATION

### National regulatory information

#### Regulation under the Occupational Safety and Health Act

#### Harmful Substances Prohibited from Manufacturing

Not applicable

#### Harmful Substances Required Permission for Manufacture

Not applicable

#### Harmful Agents to be kept below Occupational Exposure Limits

Chemical name	CAS-No.
Cyanides	151-50-8
Potassium hydroxide	1310-58-3

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### Harmful Agents Required to be kept below Permission Levels

Not applicable

### Hazardous substances requiring management

Chemical name	CAS-No.	Threshold limits (%)
Potassium cyanide	151-50-8	$\geq 1 \%$

### Special Management Materials

Not applicable

### Controlled Substances Subject to Environment Monitoring

Chemical name	CAS-No.	Threshold limits (%)
Potassium cyanide	151-50-8	$\geq 1 \%$

### Controlled Substances Subject to Health Examination

Chemical name	CAS-No.	Threshold limits (%)
Potassium cyanide	151-50-8	$\geq 1 \%$

### Regulation under the Chemicals Control Act

#### Toxic Chemicals

Chemical name	CAS-No.	NIER No.	Threshold limits (%)
Inorganic cyanide compounds	151-50-8	97-1-90	$\geq 1 \%$

#### Restricted Chemicals

Not applicable

#### Prohibited Chemicals

Not applicable

#### Toxic Release Inventory

Chemical name	CAS-No.	Group	Threshold limits (%)
Inorganic cyanide compounds	151-50-8	Group II	$\geq 1 \%$

#### Accident Precaution Chemicals

Not applicable

#### Dangerous Substances Safety Management Act

Not Applicable to Dangerous Materials

#### Wastes Control Act

Industrial waste

Follow article 13 of the act to dispose the product waste

## 16. OTHER INFORMATION

Other information : Before use read Draslovka safety information.  
For further information contact the local Draslovka office or nominated distributors.

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### Further information

Sources of key data used to compile the Safety Data Sheet : Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, <http://echa.europa.eu/>

Issuing date : 2017/02/27

### Revision number and date

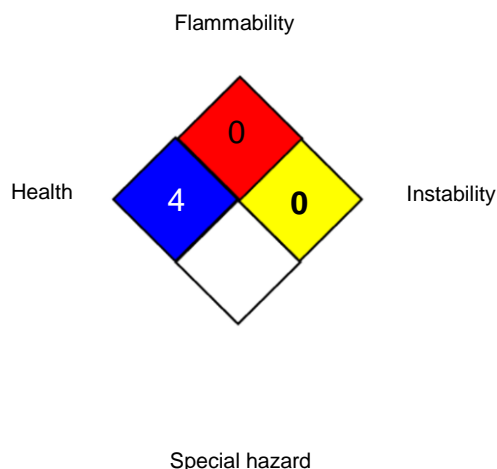
Number of Revision : 39

Revision Date : 2022/06/30

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

Date format : yyyy/mm/dd

### NFPA:



### Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)  
KR OEL : Harmful Agents to be kept below Occupational Exposure Limits

ACGIH / C : Ceiling limit  
KR OEL / TWA : Time Weighted Average  
KR OEL / C : Ceiling

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with

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x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

KR / EN