

SAFETY DATA SHEET

Potassium Cyanide Granular

Draslovka

Version	Revision Date:	SDS Number:	Date of last issue: 07.04.2022
1.8	30.06.2022	3115943-00009	Date of first issue: 27.08.2018

SECTION 1: Identification of the hazardous chemical and of the supplier

Product identifier

Product name	:	Potassium Cyanide Granular
Chemical name	:	Potassium Cyanide
CAS-No.	:	151-50-8
Product code	:	
SDS-Identcode	:	130000027494

Recommended use of the chemical and restrictions on use

Recommended use	:	Transported isolated intermediate used under strictly controlled conditions. Chemical intermediate Formulation Metal surface treatment products, including galvanic and electroplating products Degreasing agent Cleaning Hardener Plating agents and metal surface treating agents Non-metal-surface treatment products Inhibitor Extraction agents Recycling Processing aid, mining
Restrictions on use	:	For professional users only. Use in production of weapons or narcotics Fishing aid Pest control Fertilizers Disinfectants Consumer uses: Private households (= general public = consumers)

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)

SAFETY DATA SHEET

Potassium Cyanide Granular

Draslovka


Version	Revision Date:	SDS Number:	Date of last issue: 07.04.2022
1.8	30.06.2022	3115943-00009	Date of first issue: 27.08.2018

SECTION 2: Hazards identification

Classification of the hazardous chemical

Corrosive to metals	: Category 1
Acute toxicity (Oral)	: Category 2
Acute toxicity (Inhalation)	: Category 1
Acute toxicity (Dermal)	: Category 1
Specific target organ toxicity - repeated exposure	: Category 1 (Thyroid)
Hazardous to the aquatic environment - acute hazard	: Category 1
Hazardous to the aquatic environment - chronic hazard	: Category 1

Label elements

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. H372 Causes damage to organs (Thyroid) through prolonged or repeated exposure. H410 Very toxic to aquatic life with long lasting effects.
Precautionary statements	: Prevention: P273 Avoid release to the environment. P280 Wear protective gloves/ protective clothing. Response: P302 + P350 + P310 IF ON SKIN: Gently wash with plenty of soap and water. Immediately call a POISON CENTER or doctor/ physician. P304 + P340 + P310 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician. P320 Specific treatment is urgent (see supplemental first aid instructions on this label). P391 Collect spillage.

SAFETY DATA SHEET

Potassium Cyanide Granular

Draslovka

Version 1.8 Revision Date: 30.06.2022 SDS Number: 3115943-00009 Date of last issue: 07.04.2022
Date of first issue: 27.08.2018

Other hazards which do not result in classification

Contact with acids liberates very toxic gas.
Contact with water liberates toxic gas.

SECTION 3: Composition and information of the ingredients of the hazardous chemical

Substance / Mixture : Substance

Components

Chemical name	CAS-No.	Concentration (% w/w)
Potassium Cyanide	151-50-8	≥ 60 - ≤ 100

SECTION 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.
- If inhaled : If inhaled, remove to fresh air.
If not breathing, give artificial respiration.
If breathing is difficult, give oxygen.
Get medical attention immediately.
- 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.
- In case of eye contact : Flush eyes with water as a precaution.
Get medical attention if irritation develops and persists.
- 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.
Causes damage to organs through prolonged or repeated exposure.
- Protection of first-aiders : First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment

SAFETY DATA SHEET

Potassium Cyanide Granular

Draslovka

Version 1.8	Revision Date: 30.06.2022	SDS Number: 3115943-00009	Date of last issue: 07.04.2022 Date of first issue: 27.08.2018
----------------	------------------------------	------------------------------	---

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.

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media : Alcohol-resistant foam
Dry chemical

Unsuitable extinguishing media : Carbon dioxide (CO₂)
Water

Physicochemical hazards arising from the chemical

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_x)
Metal oxides

Special protective equipment and precautions for fire-fighters

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

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.

Hazchem Code : 2X

SECTION 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.

SAFETY DATA SHEET

Potassium Cyanide Granular

Draslovka

Version 1.8	Revision Date: 30.06.2022	SDS Number: 3115943-00009	Date of last issue: 07.04.2022 Date of first issue: 27.08.2018
----------------	------------------------------	------------------------------	---

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 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.

SECTION 7: Handling and storage

Handling

Precautions for safe handling

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.

Storage

Conditions for safe storage, including any incompatibilities

Conditions for safe storage : Keep in properly labelled containers.
Store in original container.
Store in a closed container.

SAFETY DATA SHEET

Potassium Cyanide Granular

Draslovka

Version 1.8 Revision Date: 30.06.2022 SDS Number: 3115943-00009 Date of last issue: 07.04.2022
Date of first issue: 27.08.2018

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:
Explosives

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

SECTION 8: Exposure controls and personal protection

Control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Potassium Cyanide	151-50-8	CEIL	5 mg/m ³ (Cyanide)	MY PEL
Further information: Skin				
		C	5 mg/m ³ (Cyanide)	ACGIH

Appropriate engineering controls : Minimize workplace exposure concentrations.
If sufficient ventilation is unavailable, use with local exhaust ventilation.

Individual protection measures, such as personal protective equipment

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

Skin 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).

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. Breakthrough time is not determined for the product. Change

SAFETY DATA SHEET

Potassium Cyanide Granular

Draslovka

Version 1.8	Revision Date: 30.06.2022	SDS Number: 3115943-00009	Date of last issue: 07.04.2022 Date of first issue: 27.08.2018
----------------	------------------------------	------------------------------	---

gloves often!

Respiratory protection : If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection.

Filter type : Particulates type

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.

SECTION 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

Relative vapour density : Not applicable

Relative density : 1.52 (20 °C)

SAFETY DATA SHEET

Potassium Cyanide Granular

Draslovka

Version 1.8	Revision Date: 30.06.2022	SDS Number: 3115943-00009	Date of last issue: 07.04.2022 Date of first issue: 27.08.2018
----------------	------------------------------	------------------------------	---

Solubility(ies) Water solubility	: 417 g/l (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.
Metal corrosion rate	: Corrosive to metals
Particle size	: No data available

SECTION 10: Stability and reactivity

Reactivity	: Contact with water liberates toxic gas.
Chemical stability	: Stable if used as directed. Follow precautionary advice and avoid incompatible materials and conditions.
Possibility of hazardous reactions	: 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.

SECTION 11: Toxicological information

Information on likely routes of exposure	: Skin contact Ingestion Eye contact
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Acute toxicity

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

Product:

Acute oral toxicity	: Acute toxicity estimate: 7.54 mg/kg
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SAFETY DATA SHEET

Potassium Cyanide Granular

Draslovka

Version 1.8	Revision Date: 30.06.2022	SDS Number: 3115943-00009	Date of last issue: 07.04.2022 Date of first issue: 27.08.2018
----------------	------------------------------	------------------------------	---

Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate: 0.005 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

Skin corrosion/irritation

Not classified based on available information.

Serious eye damage/eye irritation

Not classified based on available information.

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

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

SAFETY DATA SHEET

Potassium Cyanide Granular

Draslovka

Version	Revision Date:	SDS Number:	Date of last issue: 07.04.2022
1.8	30.06.2022	3115943-00009	Date of first issue: 27.08.2018

Carcinogenicity

Not classified based on available information.

Components:

Potassium Cyanide:

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

Reproductive toxicity

Not classified based on available information.

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 development	:	Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Result: negative

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Causes damage to organs (Thyroid) through prolonged or 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

SAFETY DATA SHEET

Potassium Cyanide Granular

Draslovka

Version 1.8	Revision Date: 30.06.2022	SDS Number: 3115943-00009	Date of last issue: 07.04.2022 Date of first issue: 27.08.2018
----------------	------------------------------	------------------------------	---

Aspiration toxicity

Not classified based on available information.

SECTION 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
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
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Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects

No data available

SECTION 13: Disposal information

Disposal methods

Waste from residues	:	Disposal of waste to be in accordance with the Environmental Quality (Scheduled Wastes) Regulations and other guidelines issuance by DOE and/or local authorities.
Contaminated packaging	:	Empty containers should be taken to an approved waste han-

SAFETY DATA SHEET

Potassium Cyanide Granular

Draslovka

Version	Revision Date:	SDS Number:	Date of last issue: 07.04.2022
1.8	30.06.2022	3115943-00009	Date of first issue: 27.08.2018

ding site for recycling or disposal.
If not otherwise specified: Dispose of as unused product.

SECTION 14: Transport information

International Regulations

UNRTDG

UN number	: UN 1680
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, <u>S-A</u>
Marine pollutant	: yes

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

Not applicable for product as supplied.

Hazchem Code	: 2X
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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.

SECTION 15: Regulatory information

Safety, health, and environmental regulations specific for the hazardous chemical

Occupational Safety and Health (Classification, Labelling and Safety Data Sheet of Hazardous Chemicals) Regulations 2013.

Occupational Safety and Health (Use and Standards of Exposure of Chemicals Hazardous to Health) Regulations 2000.

SAFETY DATA SHEET

Potassium Cyanide Granular

Draslovka

Version	Revision Date:	SDS Number:	Date of last issue: 07.04.2022
1.8	30.06.2022	3115943-00009	Date of first issue: 27.08.2018

SECTION 16: Other information

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

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/>

Date format : dd.mm.yyyy

Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)
MY PEL : Malaysia. Occupational Safety and Health (Use and Standards of Exposure of Chemicals Hazardous to Health) Regulations 2000.

ACGIH / C : Ceiling limit
MY PEL / CEIL : Ceiling limit airborne concentration

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 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

SAFETY DATA SHEET

Potassium Cyanide Granular

Draslovka

Version	Revision Date:	SDS Number:	Date of last issue: 07.04.2022
1.8	30.06.2022	3115943-00009	Date of first issue: 27.08.2018

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.

MY / EN