

Cobalt Carbonate 46

Version 7.0

US

SDS Number: 300000001165

Revision Date: 03/20/2023

SECTION 1. IDENTIFICATION

Product name : Cobalt Carbonate 46

Trade name : Cobalt Carbonate 46% ; Cobalt Carbonate 47%

Product code : 300000001165

CAS-No. : 513-79-1

Manufacturer or supplier's details

Company name of supplier : TODINI AND CO.

Address : (FOR IT,FR,DE,ES,PL & BE) Corso Milano 46
20900 Monza
Italy

E-mail address of person responsible for the SDS : sds.csm@eu.umicore.com

Poison Center

Telephone : +1 800 222 1222

Hours of operation : 24HRS

Supplier

Emergency telephone number : For transport in Europe, Central- and South America, Israel and Africa (Non-Arabic speaking countries):(+32) 3 213 15 70
For transport in the Middle East (Israel excluded) & Arabic speaking Africa:(+32) 3 213 33 79
For transport in the USA and Canada:(+1)-877 986 4267
For transport in Asian and the Pacific (China excluded):(+65) 62 64 78 36
For transport in China:(+86) 400 120 60 11

Hours of operation : This telephone number is available 24 hours per day, 7 days per week.

Recommended use of the chemical and restrictions on use

Recommended use : Chemical plating of metals
Manufacture of chemicals.
Catalyst
Production of catalysts and catalyst precursors
Colouring agents, pigments
Intermediate
Animal feedstuff
Inorganic fertiliser
Specialty chemical for industrial use

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SECTION 2. HAZARDS IDENTIFICATION**GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)**

Acute toxicity (Oral)	: Category 4
Respiratory sensitisation	: Sub-category 1B
Skin sensitisation	: Category 1
Germ cell mutagenicity	: Category 2
Carcinogenicity (Inhalation)	: Category 1B
Reproductive toxicity	: Category 1B
Short-term (acute) aquatic hazard	: Category 1
Long-term (chronic) aquatic hazard	: Category 1

GHS label elements

Hazard pictograms	: 
Signal word	: Danger
Hazard statements	: H302 Harmful if swallowed. H317 May cause an allergic skin reaction. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H341 Suspected of causing genetic defects. H350 May cause cancer by inhalation. H360Fd May damage fertility. Suspected of damaging the unborn child. H410 Very toxic to aquatic life with long lasting effects.
Precautionary statements	: Prevention: P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P261 Avoid breathing dust. P264 Wash skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P272 Contaminated work clothing must not be allowed out of the workplace. P273 Avoid release to the environment. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

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P285 In case of inadequate ventilation wear respiratory protection.

Response:

P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P304 + P341 IF INHALED: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.

P308 + P313 IF exposed or concerned: Get medical advice/ attention.

P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.

P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER/ doctor.

P363 Wash contaminated clothing before reuse.

P391 Collect spillage.

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Substance

Substance name : cobalt carbonate

CAS-No. : 513-79-1

Components

Chemical name	CAS-No.	Concentration (% w/w)
cobalt carbonate	513-79-1	<= 95

SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area.
Show this safety data sheet to the doctor in attendance.
Do not leave the victim unattended.

If inhaled : Call a physician or poison control centre immediately.
Move to fresh air.
If unconscious, place in recovery position and get medical attention immediately.

In case of skin contact : If on skin, rinse well with water.
If on clothes, remove clothes.

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|---|---|--|
| In case of eye contact | : | Remove contact lenses.
Flush eyes with water as a precaution.
Protect unharmed eye.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist. |
| If swallowed | : | Keep respiratory tract clear.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician. |
| Most important symptoms and effects, both acute and delayed | : | Skin contact may provoke the following symptoms:
Allergic reactions
Inhalation may provoke the following symptoms:
Shortness of breath
Asthma
Ingestion may provoke the following symptoms:
Stomach/intestinal disorders |

SECTION 5. FIREFIGHTING MEASURES

- | | | |
|---|---|---|
| Suitable extinguishing media | : | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |
| Unsuitable extinguishing media | : | High volume water jet |
| Specific hazards during fire-fighting | : | Do not allow run-off from fire fighting to enter drains or water courses. |
| Hazardous combustion products | : | Hazardous decomposition products due to incomplete combustion |
| Further information | : | 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. |
| Special protective equipment for firefighters | : | Wear self-contained breathing apparatus for firefighting if necessary. |

SECTION 6. ACCIDENTAL RELEASE MEASURES

- | | | |
|---|---|---|
| Personal precautions, protective equipment and emergency procedures | : | Use personal protective equipment.
Avoid dust formation.
Ensure adequate ventilation.
Evacuate personnel to safe areas. |
| Environmental precautions | : | Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities. |
| Methods and materials for | : | Wipe up with absorbent material (e.g. cloth, fleece). |

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containment and cleaning up

SECTION 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : Provide appropriate exhaust ventilation at places where dust is formed.
- Advice on safe handling : Avoid formation of respirable particles.
Do not breathe vapours/dust.
Avoid exposure - obtain special instructions before use.
Avoid contact with skin and eyes.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
Provide sufficient air exchange and/or exhaust in work rooms.
Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.
- Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Electrical installations / working materials must comply with the technological safety standards.
To maintain product quality, do not store in heat or direct sunlight.
- Further information on storage stability : Keep in a dry place.
No decomposition if stored and applied as directed.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Components with workplace control parameters**

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
cobalt carbonate	513-79-1	TWA (Inhalable particulate matter)	0.02 mg/m ³ (Cobalt)	ACGIH

Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sampling time	Permissible concentration	Basis
cobalt carbonate	513-79-1	Cobalt (Cobalt)	Urine	End of shift at end of work-week	15 µg/l	ACGIH BEI

Engineering measures : Handle only in a place equipped with local exhaust (or other

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appropriate exhaust).

Personal protective equipment

Respiratory protection : When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Wear a NIOSH-approved respirator
Category 21C air-purifying respirator equipped with a full
facepiece and high efficiency particulate filters.

Hand protection

Material : Nitrile rubber
Break through time : > 480 min
Glove thickness : 0.12 mm

Material : PVC
Break through time : > 480 min
Glove thickness : 1.1 mm

Material : Neoprene
Break through time : > 480 min
Glove thickness : 0.35 mm

Glove length : Long sleeve gloves

Eye protection : Wear safety glasses with side shields or goggles.

Skin and body protection : Footwear protecting against chemicals

Hygiene measures : General industrial hygiene practice.
Wash hands before breaks and immediately after handling
the product.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : crystalline

Colour : red

Odour : odourless

Odour Threshold : Not relevant

pH : Not applicable

Melting point/range : Decomposition

Boiling point/boiling range : Not applicable

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Flash point	:	Not applicable
Flammability (solid, gas)	:	The product is not flammable.
Vapour pressure	:	Not applicable
Density	:	4.17 g/cm ³ (68 °F / 20 °C)
Solubility(ies)		
Water solubility	:	0.00001 g/l practically insoluble
Auto-ignition temperature	:	not determined
Decomposition temperature	:	392 °F / 200 °C 536 °F / 280 °C
Viscosity		
Viscosity, kinematic	:	Not applicable
Oxidizing properties	:	Not oxidising
Molecular weight	:	118.94 g/mol

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	Stable at normal ambient temperature and pressure.
Chemical stability	:	No decomposition if stored and applied as directed.
Possibility of hazardous reactions	:	Stable under recommended storage conditions.
Conditions to avoid	:	None known.
Hazardous decomposition products	:	No decomposition if stored normally.

SECTION 11. TOXICOLOGICAL INFORMATION**Acute toxicity****Product:**

Acute oral toxicity	:	Acute toxicity estimate: 733.68 mg/kg Method: Calculation method
Acute dermal toxicity	:	Remarks: No data available

Components:**cobalt carbonate:**

Acute oral toxicity	:	LD50 (Rat, male and female): 697 mg/kg Method: OECD Test Guideline 401 GLP: yes
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- Acute inhalation toxicity : LC50 (Rat, male and female): > 10 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 436
GLP: yes
- Acute dermal toxicity : LD50 (Rat, male and female): > 5,000 mg/kg
Method: OECD Test Guideline 402
GLP: yes
Remarks: Based on read across from structural related substance
bis(4-oxopent-2-en-2-olate) cobalt dihydrate

Skin corrosion/irritation**Components:****cobalt carbonate:**

- Species : reconstructed human epidermis (RhE)
Exposure time : 15 min
Result : No skin irritation
GLP : yes

Serious eye damage/eye irritation**Product:**

- Remarks : No data available

Components:**cobalt carbonate:**

- Species : Rabbit
Result : No eye irritation
Method : OECD Test Guideline 405
GLP : no

Respiratory or skin sensitisation**Components:****cobalt carbonate:**

- Exposure routes : Skin contact
Species : Humans
Result : Probability or evidence of skin sensitisation in humans
- Exposure routes : Inhalation
Species : Humans
Result : The product is a respiratory sensitiser, sub-category 1B.

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Germ cell mutagenicity

Product:

Genotoxicity in vitro : Remarks: No data available

Components:

cobalt carbonate:

Genotoxicity in vitro : Test Type: In vitro mammalian cell gene mutation test
 Test system: mammalian cells
 Result: negative
 Remarks: Expert judgement and weight of evidence determination.

Test Type: Chromosome aberration test in vitro
 Test system: mammalian cells
 Result: negative
 Remarks: Expert judgement and weight of evidence determination.

Germ cell mutagenicity - Assessment : In vitro tests showed mutagenic effects

Carcinogenicity

Product:

Remarks : No data available

Components:

cobalt carbonate:

Species : Rat, male and female
 Application Route : inhalation (aerosol)
 Exposure time : 105 weeks
 Activity duration : 6 h
 Dose : 1.24, 2.50, 5.01 mg/m³
 Frequency of Treatment : 5 days/week
 : 1.24 mg/m³
 Method : OECD Test Guideline 451
 Result : positive
 GLP : yes
 Remarks : Based on read across from structural related substance Cobalt

Species : Mouse, male and female
 Application Route : inhalation (aerosol)
 Exposure time : 105 weeks
 Activity duration : 6 h
 Dose : 1.24, 2.49, 5.01 mg/m³
 Frequency of Treatment : 5 days/week
 : 1.24 mg/m³
 Method : OECD Test Guideline 451
 Result : positive
 GLP : yes

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Remarks	:	Based on read across from structural related substance Cobalt
Carcinogenicity - Assessment	:	Sufficient evidence of carcinogenicity in inhalation studies with animals
IARC		No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
OSHA		No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.
NTP		No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity**Product:**

Effects on fertility	:	Remarks: No data available
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Components:**cobalt carbonate:**

Reproductive toxicity - Assessment	:	Clear evidence of adverse effects on sexual function and fertility, based on animal experiments., Some evidence of adverse effects on development, based on animal experiments.
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STOT - single exposure**Product:**

Remarks	:	No data available
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STOT - repeated exposure**Product:**

Remarks	:	No data available
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Repeated dose toxicity**Components:****cobalt carbonate:**

Species	:	Rat, male and female
NOAEL	:	1,000 mg/kg
Application Route	:	oral (gavage)
Number of exposures	:	daily
Dose	:	0, 100, 300, 1000 mg/kg
Method	:	OECD Test Guideline 422
GLP	:	yes

Species	:	Rat, male and female
NOAEL	:	300 mg/kg
Application Route	:	oral (gavage)

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Exposure time : 90 d
Number of exposures : daily
Dose : 100, 300, 1000 mg/kg
Method : OECD Test Guideline 408
GLP : yes
Remarks : Based on read across from structural related substance
Cobalt oxide (Co₃O₄)

Species : Mouse, male and female
: 0.61 mg/m³
Application Route : inhalation (aerosol)
Exposure time : 14 Weeks
Number of exposures : 5 d/w
Dose : 0.61, 1.23, 2.5, 5
Method : OECD Test Guideline 413
GLP : yes
Remarks : Based on read across from structural related substance
Cobalt sulphate

Species : Rat, male and female
: 0.61 mg/m³
Application Route : inhalation (aerosol)
Exposure time : 14 Weeks
Number of exposures : 5 d/w
Dose : 0.61, 1.23, 2.5, 5
Method : OECD Test Guideline 413
GLP : yes
Remarks : Based on read across from structural related substance
Cobalt sulphate

Further information**Product:**

Remarks : No data available

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity****Components:****cobalt carbonate:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 1.51 mg/l
Exposure time: 96 h
Remarks: Fresh water
Based on read across from structural related substance
cobalt dichloride hexahydrate

LC50 (Oncorhynchus mykiss (rainbow trout)): 1.51 mg/l
Exposure time: 96 h
Remarks: Fresh water

Toxicity to daphnia and other : LC50 (Cladoceran (water flea)): 0.61 mg/l
aquatic invertebrates Remarks: Fresh water

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		unit expressed as mg metal/l Based on read across from structural related substance cobalt dichloride hexahydrate
Toxicity to algae/aquatic plants	:	EC50 (Lemna minor (duckweed)): 0.182 mg/l Exposure time: 7 DAYS Remarks: Fresh water EC10 (Lemna minor (duckweed)): 0.0099 mg/l Exposure time: 7 DAYS Remarks: Fresh water
M-Factor (Acute aquatic toxicity)	:	10
Toxicity to fish (Chronic toxicity)	:	EC10 (Pimephales promelas (fathead minnow)): 0.351 mg/l Remarks: unit expressed as mg metal/l Fresh water Based on read across from structural related substance cobalt dichloride hexahydrate
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	EC10 (Hyalella azteca): 0.00547 mg/l Remarks: Fresh water unit expressed as mg metal/l Based on read across from structural related substance cobalt dichloride hexahydrate EC10: 0.206 mg/l Remarks: Marine water unit expressed as mg metal/l Based on read across from structural related substance cobalt dichloride hexahydrate
M-Factor (Chronic aquatic toxicity)	:	10

Ecotoxicology Assessment

Acute aquatic toxicity	:	Very toxic to aquatic life.
Chronic aquatic toxicity	:	Very toxic to aquatic life with long lasting effects.

Persistence and degradability

No data available

Bioaccumulative potential**Components:****cobalt carbonate:**

Bioaccumulation	:	Bioconcentration factor (BCF): 180 - 4,000
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Mobility in soil

No data available

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Other adverse effects**Product:**

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances

Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

Additional ecological information : Very toxic to aquatic life with long lasting effects.

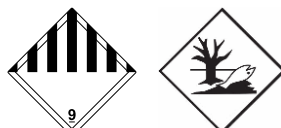
SECTION 13. DISPOSAL CONSIDERATIONS**Disposal methods**

Waste from residues : The product should not be allowed to enter drains, water courses or the soil.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Send to a licensed waste management company.
Dispose of as hazardous waste in compliance with local and national regulations.

Contaminated packaging : Empty remaining contents.
Dispose of contaminated packaging as if unused product.
Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION**International Regulations****UNRTDG**

UN number : UN 3077
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(carbonic acid, cobalt(2+) salt (1:1))
Class : 9
Packing group : III
Labels : 9



Marine pollutant : yes

IATA-DGR

UN/ID No. : UN 3077
Proper shipping name : Environmentally hazardous substance, solid, n.o.s.
(carbonic acid, cobalt(2+) salt (1:1))
Class : 9
Packing group : III

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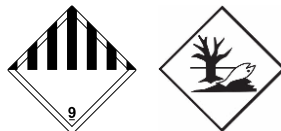
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Labels : Miscellaneous



Packing instruction (cargo aircraft) : 956

Maximum quantity : 400.00 KG

Packing instruction (passenger aircraft) : 956

Maximum quantity : 400.00 KG

Environmentally hazardous : yes

IMDG-Code

UN number : UN 3077

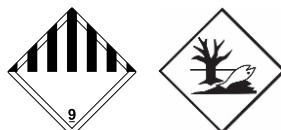
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

(carbonic acid, cobalt(2+) salt (1:1))

Class : 9

Packing group : III

Labels : 9



EmS Code : F-A, S-F

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

49 CFR

Not regulated as a dangerous good

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

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : Acute toxicity (any route of exposure)
Respiratory or skin sensitisation
Germ cell mutagenicity

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This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).
The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 112 (40 CFR 61):

cobalt carbonate	513-79-1	95 %
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This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM1 Intermediate or Final VOC's (40 CFR 60.489).

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

This product does not contain any priority pollutants related to the U.S. Clean Water Act

No components are subject to the Massachusetts Right to Know Act.

cobalt carbonate 513-79-1

This product does not contain any chemicals that are listed as Maine Chemicals of High Concern.

Product does not contain any listed chemicals

cobalt carbonate 513-79-1

cobalt carbonate 513-79-1

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

TSCA : All substances listed as active on the TSCA inventory

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AIIC	:	On the inventory, or in compliance with the inventory
DSL	:	All components of this product are on the Canadian DSL
ENCS	:	On the inventory, or in compliance with the inventory
ISHL	:	On the inventory, or in compliance with the inventory
KECI	:	On the inventory, or in compliance with the inventory
PICCS	:	On the inventory, or in compliance with the inventory
IECSC	:	On the inventory, or in compliance with the inventory
NZIoC	:	Not in compliance with the inventory
CH INV	:	On the inventory, or in compliance with the inventory
TCSI	:	On the inventory, or in compliance with the inventory
TECI	:	On the inventory, or in compliance with the inventory

TSCA list

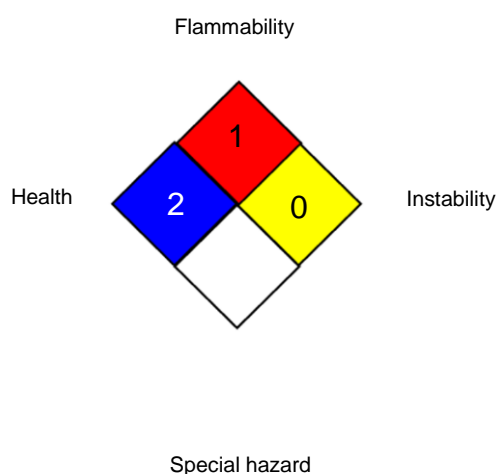
No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

SECTION 16. OTHER INFORMATION

Further information

NFPA 704:



HMIS® IV:

HEALTH	*	2
FLAMMABILITY		1
PHYSICAL HAZARD		0

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

Full text of other abbreviations

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ACGIH : USA. ACGIH Threshold Limit Values (TLV)
ACGIH BEI : ACGIH - Biological Exposure Indices (BEI)
ACGIH / TWA : 8-hour, time-weighted average

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; 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; HMIS - Hazardous Materials Identification System; 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; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; 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

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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 given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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