

## Safety Data Sheet

### S-6900

Version number: 13.0  
SDS Identifier: S-6900

Revision: 2024-02-27

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

### 1.1 Product identifier

SDS Identifier **S-6900**  
Catalog numbers A-6900

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

Relevant identified uses Components of water analysis test kits

### 1.3 Details of the supplier of the safety data sheet

AquaPhoenix Scientific, Inc.  
860 Gitts Run Road  
Hanover PA 17331  
United States

Telephone: (717) 632-1291  
e-mail: [info@aquaphoenixsci.com](mailto:info@aquaphoenixsci.com)  
Website: <https://www.aquaphoenixsci.com/>

e-mail (competent person) [scraig@aquaphoenixsci.com](mailto:scraig@aquaphoenixsci.com) (Stephen Craig)

### 1.4 Emergency telephone number

Emergency information service ChemTel Inc.: 1-800-255-3924, +01-813-248-0585

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

Classification acc. to GHS

Hazard class	Category	Hazard class and category	Hazard statement
acute toxicity (oral)	5	Acute Tox. 5	H303
acute toxicity (inhal.)	3	Acute Tox. 3	H331
skin corrosion/irritation	3	Skin Irrit. 3	H316
serious eye damage/eye irritation	1	Eye Dam. 1	H318
germ cell mutagenicity	2	Muta. 2	H341
carcinogenicity	1A	Carc. 1A	H350
reproductive toxicity	2	Repr. 2	H361fd
specific target organ toxicity - repeated exposure	2	STOT RE 2	H373

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Hazard class	Category	Hazard class and category	Hazard statement
hazardous to the aquatic environment - acute hazard	1	Aquatic Acute 1	H400
hazardous to the aquatic environment - chronic hazard	2	Aquatic Chronic 2	H411

For full text of abbreviations: see SECTION 16.

The most important adverse physicochemical, human health and environmental effects

Delayed or immediate effects can be expected after short or long-term exposure. Spillage and fire water can cause pollution of watercourses.

## 2.2 Label elements

Labelling

- Signal word            danger

- Pictograms

GHS05, GHS06, GHS08,  
GHS09



- Hazard statements

H303	May be harmful if swallowed.
H316	Causes mild skin irritation.
H318	Causes serious eye damage.
H331	Toxic if inhaled.
H341	Suspected of causing genetic defects.
H350	May cause cancer.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

- Precautionary statements

P203	Obtain, read and follow all safety instructions before use.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P264+P265	Wash hands thoroughly after handling. Do not touch eyes.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear eye protection/face protection.
P301+P317	IF SWALLOWED: Get medical help.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P354+P338	IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.




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Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms
cadmium (non-pyrophoric)	CAS No 7440-43-9	3 – 7	Acute Tox. 2 / H330 Muta. 2 / H341 Carc. 1A / H350 Repr. 2 / H361fd STOT RE 1 / H372 Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410	
CDTA copper salt	CAS No 19332-78-6	≤ 1		
polyquaternium 15	CAS No 35429-19-7	≤ 0.1		

For full text of abbreviations: see SECTION 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

#### Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. In case of respiratory tract irritation, consult a physician. Provide fresh air.

#### Following skin contact

Rinse skin with water/shower.

#### Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

#### Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

### 4.2 Most important symptoms and effects, both acute and delayed

Symptoms and effects are not known to date.

### 4.3 Indication of any immediate medical attention and special treatment needed

none

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### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

Suitable extinguishing media

Water, Foam, Alcohol resistant foam, ABC-powder

Unsuitable extinguishing media

Water jet

#### 5.2 Special hazards arising from the substance or mixture

Deposited combustible dust has considerable explosion potential.

Hazardous combustion products

Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>)

#### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety.

For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases.

#### 6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. If substance has entered a water course or sewer, inform the responsible authority.

#### 6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains, Take up mechanically

Advice on how to clean up a spill

Take up mechanically.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

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### 6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

#### Recommendations

Wear impact- and splash-resistant eyewear.

#### - Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Take precautionary measures against static discharge. Use only in well-ventilated areas. Ground/bond container and receiving equipment.

#### - Specific notes/details

Dust deposits may accumulate on all deposition surfaces in a technical room. The product in the delivered form is not dust explosion capable; the enrichment of fine dust however leads to the danger of dust explosion.

#### Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

### 7.2 Conditions for safe storage, including any incompatibilities

#### Managing of associated risks

#### - Explosive atmospheres

Removal of dust deposits.

#### Control of effects

#### Protect against external exposure, such as

heat, high temperatures, light, UV-radiation/sunlight

#### - Ventilation requirements

Keep any substance that emits harmful vapours or gases in a place that allows these to be permanently extracted. Use local and general ventilation.

#### - Packaging compatibilities

Only packagings which are approved (e.g. acc. to the Dangerous Goods Regulations) may be used.

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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Occupational exposure limit values (Workplace Exposure Limits)											
Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m <sup>3</sup> ]	STEL [ppm]	STEL [mg/m <sup>3</sup> ]	Ceiling-C [ppm]	Ceiling-C [mg/m <sup>3</sup> ]	Notation	Source
CA	particulates not otherwise classified (PNOC)		PEV/VEA		10					dust, noAsb, less1Sil	Regulation OHS
CA	cadmium	7440-43-9	PEV/VEA		0.025						Regulation OHS
US	particulates not otherwise classified		REL							appx-D	NIOSH REL
US	particulates not otherwise classified (PNOC)		PEL	1,766	15					partml, i, dust	29 CFR 1910.1000
US	particulates not otherwise classified (PNOC)		PEL	529.5	5					partml, r, dust	29 CFR 1910.1000
US	Particulates not otherwise regulated		PEL (CA)		10					dust	Cal/OSHA PEL
US	Particulates not otherwise regulated		PEL (CA)		5					r	Cal/OSHA PEL
US	cadmium	7440-43-9	PEL		0.005						29 CFR 1910.1000
US	cadmium	7440-43-9	TLV®		0.01					Cd	ACGIH® 2023
US	cadmium	7440-43-9	PEL (CA)		0.005					dust, Cd	Cal/OSHA PEL
US	cadmium	7440-43-9	REL							dust, Cd, appx-A, lowest	NIOSH REL
US	cadmium	7440-43-9	PEL		0.3				0.6	dust, us-pel-z2b	29 CFR 1910.1000
US	cadmium	7440-43-9	PEL		0.1				0.3	fume, us-pel-z2b	29 CFR 1910.1000

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#### Occupational exposure limit values (Workplace Exposure Limits)

Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m <sup>3</sup> ]	STEL [ppm]	STEL [mg/m <sup>3</sup> ]	Ceiling-C [ppm]	Ceiling-C [mg/m <sup>3</sup> ]	Notation	Source
US	cadmium	7440-43-9	TLV®		0.002					r, Cd	ACGIH® 2023

#### Notation

appx-A	NIOSH Potential Occupational Carcinogen (Appendix A)
appx-D	see Appendix D - Substances with No Established RELs
Cd	calculated as Cd (cadmium)
Ceiling-C	ceiling value is a limit value above which exposure should not occur
dust	as dust
fume	as fume
i	inhalable fraction
lowest	exposure by all routes should be carefully controlled to levels as low as possible
noAsb_less1S	contains no asbestos and less than 1% free crystalline silica
il	
partml	particles/ml
r	respirable fraction
STEL	short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)
TWA	time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)
us-pel-z2b	This standard applies to any operations or sectors for which the Cadmium standard, 1910.1027, is stayed or otherwise not in effect.

#### Biological limit values

Country	Name of agent	Parameter	Notation	Identifier	Value	Source
US	cadmium	cadmium		BEI®	5 µg/l	ACGIH® 2023
US	cadmium	cadmium	crea	BEI®	5 µg/g	ACGIH® 2023

#### Notation

crea	creatinine
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#### Relevant DNELs of components

Name of substance	CAS No	Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
sodium sulfate	7757-82-6	DNEL	20 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
sodium sulfate	7757-82-6	DNEL	20 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - local effects
cadmium (non-pyrophoric)	7440-43-9	DNEL	4 µg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - local effects



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Relevant PNECs of components						
Name of substance	CAS No	Endpoint	Threshold level	Organism	Environmental compartment	Exposure time
sodium sulfate	7757-82-6	PNEC	11.09 mg/l	aquatic organisms	freshwater	short-term (single instance)
sodium sulfate	7757-82-6	PNEC	1.109 mg/l	aquatic organisms	marine water	short-term (single instance)
sodium sulfate	7757-82-6	PNEC	800 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
sodium sulfate	7757-82-6	PNEC	40.2 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
sodium sulfate	7757-82-6	PNEC	4.02 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
sodium sulfate	7757-82-6	PNEC	1.54 mg/kg	terrestrial organisms	soil	short-term (single instance)
cadmium (non-pyrophoric)	7440-43-9	PNEC	0.19 µg/l	aquatic organisms	freshwater	short-term (single instance)
cadmium (non-pyrophoric)	7440-43-9	PNEC	1.14 µg/l	aquatic organisms	marine water	short-term (single instance)
cadmium (non-pyrophoric)	7440-43-9	PNEC	20 µg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
cadmium (non-pyrophoric)	7440-43-9	PNEC	1.8 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
cadmium (non-pyrophoric)	7440-43-9	PNEC	0.64 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
cadmium (non-pyrophoric)	7440-43-9	PNEC	0.9 mg/kg	terrestrial organisms	soil	short-term (single instance)

## 8.2 Exposure controls

### Appropriate engineering controls

General ventilation.

### Individual protection measures (personal protective equipment)

#### Eye/face protection

Wear eye/face protection.

#### Skin protection

#### - Hand protection

In the case of wanting to use the gloves again, clean them before taking off and air them well.

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**- Other protection measures**

Wash hands thoroughly after handling.

**Respiratory protection**

Particulate filter device (EN 143).

**Environmental exposure controls**

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Product description: Cadmium Foil Packs: Each foil pack contains approximately 0.3 g of solid. Each refill and test kit contains 30 foil packs

Physical state	solid (powder)
Colour	blue - metallic
Odour	odourless
Melting point/freezing point	not determined
Boiling point or initial boiling point and boiling range	179.1 °C at 101 kPa
Evaporation rate	not determined
Flammability	this material is combustible, but will not ignite readily
Lower and upper explosion limit	not determined
Flash point	not applicable
Auto-ignition temperature	375 °C (relative self-ignition temperature for solids)
Decomposition temperature	not relevant
pH (value)	3.4 (in aqueous solution: 5 wt%, 20 °C)
Kinematic viscosity	not relevant

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### Solubility(ies)

Water solubility	>1,000 mg/l at 25 °C
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### Partition coefficient

Partition coefficient n-octanol/water (log value)	-2.33
Soil/water (log KSW)	-0.54

Vapour pressure	<5 Pa at 20 °C
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### Density and/or relative density

Density	0.954 g/cm <sup>3</sup> at 20 °C
Relative vapour density	information on this property is not available

Particle characteristics	no data available
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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

### 10.2 Chemical stability

See below "Conditions to avoid".

### 10.3 Possibility of hazardous reactions

No known hazardous reactions.

### 10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

### 10.5 Incompatible materials

Oxidisers

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### 10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Test data are not available for the complete mixture.

#### Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

#### Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

#### Acute toxicity

May be harmful if swallowed. Toxic if inhaled.

#### - Acute toxicity estimate (ATE)

Oral 5,000 mg/kg  
Inhalation: dust/mist 0.6557 mg/l/4h

#### Acute toxicity estimate (ATE) of components

Name of substance	CAS No	Exposure route	ATE
(+)-tartaric acid	87-69-4	oral	≥2,000 mg/kg
(+)-tartaric acid	87-69-4	dermal	>2,000 mg/kg
sodium sulfate	7757-82-6	inhalation: dust/mist	>2.4 mg/l/4h
cadmium (non-pyrophoric)	7440-43-9	inhalation: dust/mist	0.05 mg/l/4h

#### Skin corrosion/irritation

Causes mild skin irritation.

#### Serious eye damage/eye irritation

Causes serious eye damage.

#### Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

#### Germ cell mutagenicity

Suspected of causing genetic defects.

#### Carcinogenicity

May cause cancer.

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#### IARC Monographs on the Evaluation of Carcinogenic Risks to Humans

Name of substance	CAS No	Classification	Number
cadmium (non-pyrophoric)	7440-43-9	1	

#### Legend

1 Carcinogenic to humans

#### National Toxicology Program: Report on Carcinogens

Name of substance	CAS No	Classification	Number
cadmium (non-pyrophoric)	7440-43-9	Known to be a human carcinogen	1st Report on Carcinogens

#### 29 CFR 1910/1915/1926 Occupational Safety and Health Standards: Toxic and Hazardous Substances (carcinogens)

Name of substance	CAS No	Type of registration
cadmium (non-pyrophoric)	7440-43-9	GI §1910.1027, SE §1915.1027, CI §1926.1127

#### Legend

CI §1926.1127 Construction Industry (29 CFR 1926.1127)  
GI §1910.1027 General Industry (29 CFR 1910.1027)  
SE §1915.1027 Shipyard Employment (29 CFR 1915.1027)

#### Reproductive toxicity

Suspected of damaging the unborn child. Suspected of damaging fertility.

#### Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

#### Specific target organ toxicity - repeated exposure

May cause damage to organs through prolonged or repeated exposure.

#### Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

### 11.2 Information on other hazards

There is no additional information.

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**SECTION 12: Ecological information**

**12.1 Toxicity**

Very toxic to aquatic life with long lasting effects.

Aquatic toxicity (acute) of components

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
(+)-tartaric acid	87-69-4	ErC50	≥100 mg/l	algae	72 h
(+)-tartaric acid	87-69-4	LC50	>100 mg/l	fish	96 h
(+)-tartaric acid	87-69-4	EC50	93.31 mg/l	aquatic invertebrates	48 h
sodium sulfate	7757-82-6	LC50	7,960 mg/l	fish	96 h
sodium sulfate	7757-82-6	EC50	3,150 mg/l	aquatic invertebrates	48 h
cadmium (non-pyrophoric)	7440-43-9	LC50	58.16 µg/l	aquatic invertebrates	48 h
cadmium (non-pyrophoric)	7440-43-9	EC50	1,900 µg/l	aquatic invertebrates	24 h
cadmium (non-pyrophoric)	7440-43-9	ErC50	120 µg/l	algae	72 h

Aquatic toxicity (chronic) of components

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
(+)-tartaric acid	87-69-4	EC50	>1,000 mg/l	microorganisms	3 h
sodium sulfate	7757-82-6	LC50	3,030 mg/l	aquatic invertebrates	7 d
sodium sulfate	7757-82-6	EC50	1,900 mg/l	algae	120 h
cadmium (non-pyrophoric)	7440-43-9	LC50	1,500 µg/l	fish	4 d
cadmium (non-pyrophoric)	7440-43-9	EC50	8.1 µg/l	fish	100 d

**12.2 Persistence and degradability**

Degradability of components

Name of substance	CAS No	Process	Degradation rate	Time	Method	Source
(+)-tartaric acid	87-69-4	oxygen depletion	85 %	28 d		ECHA

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### 12.3 Bioaccumulative potential

Data are not available.

Bioaccumulative potential of components				
Name of substance	CAS No	BCF	Log KOW	BOD5/COD
(+)-tartaric acid	87-69-4		-1.91 (20 °C)	

### 12.4 Mobility in soil

Data are not available.

### 12.5 Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB. Does not contain a PBT-/vPvB-substance in a concentration of  $\geq 0,1\%$ .

### 12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) in a concentration of  $\geq 0,1\%$ .

### 12.7 Other adverse effects

Data are not available.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Please consider the relevant national or regional provisions.

## SECTION 14: Transport information

### 14.1 UN number

DOT	UN 3288
IMDG-Code	UN 3288
ICAO-TI	UN 3288

### 14.2 UN proper shipping name

DOT	Toxic solid, inorganic, n.o.s.
IMDG-Code	TOXIC SOLID, INORGANIC, N.O.S.
ICAO-TI	Toxic solid, inorganic, n.o.s.
Technical name (hazardous ingredients)	cadmium (non-pyrophoric)

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#### 14.3 Transport hazard class(es)

DOT	6.1
IMDG-Code	6.1
ICAO-TI	6.1

#### 14.4 Packing group

DOT	III
IMDG-Code	III
ICAO-TI	III

#### 14.5 Environmental hazards

	hazardous to the aquatic environment
Environmentally hazardous substance (aquatic environment)	cadmium (non-pyrophoric)

#### 14.6 Other relevant information


Shipping container markings and labels, received from CHEMetrics, may vary from the above information. Products that are regulated for transport will be packaged by CHEMetrics as Dangerous Goods in Excepted Quantities according to IATA, US DOT, and IMDG regulations. CHEMetrics may also elect to ship certain products as UN 3316 Chemical Kit, Hazard Class 9, Packing Group II or III. In case of reshipment, it is the responsibility of the shipper to determine appropriate labels and markings in accordance with applicable transportation regulations.

#### 14.7 Maritime transport in bulk according to IMO instruments

The cargo is not intended to be carried in bulk.

#### Information for each of the UN Model Regulations

##### **Transport of dangerous goods by road or rail (49 CFR US DOT) - Additional information**

Particulars in the shipper's declaration	UN3288, Toxic solid, inorganic, n.o.s., (contains: cadmium (non-pyrophoric)), 6.1, III, environmentally hazardous
Reportable quantity (RQ)	142.9 lbs (64.86 kg) (cadmium (non-pyrophoric))
Danger label(s)	6.1, fish and tree
	
Environmental hazards	yes (hazardous to the aquatic environment)
Special provisions (SP)	IB8, IP3, T1, TP33
ERG No	151




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#### International Maritime Dangerous Goods Code (IMDG) - Additional information

Marine pollutant	yes (hazardous to the aquatic environment) (cadmium (non-pyrophoric))
Danger label(s)	6.1, fish and tree
	
Special provisions (SP)	223, 274
Excepted quantities (EQ)	E1
Limited quantities (LQ)	5 kg
EmS	F-A, S-A
Stowage category	A

#### International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information

Environmental hazards	yes (hazardous to the aquatic environment)
Danger label(s)	6.1
	
Special provisions (SP)	A3, A5
Excepted quantities (EQ)	E1
Limited quantities (LQ)	10 kg

### SECTION 15: Regulatory information

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

##### National regulations (United States)

**Toxic Substance Control Act (TSCA)** not all ingredients are listed (ACTIVE)

##### Superfund Amendment and Reauthorization Act (SARA TITLE III )

- The List of Extremely Hazardous Substances and Their Threshold Planning Quantities (EPCRA Section 302, 304)

none of the ingredients are listed

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#### - Specific Toxic Chemical Listings (EPCRA Section 313)

Toxics Release Inventory		
Name of substance	Remarks	Effective date
cadmium (non-pyrophoric)		1986-12-31

#### Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)

##### - List of Hazardous Substances and Reportable Quantities (CERCLA section 102a) (40 CFR 302.4)

Name of substance	Remarks	Statutory code	Final RQ pounds (Kg)
cadmium (non-pyrophoric)	[4]	2	10 (4,54)

##### Legend

2 "2" indicates that the source is section 307(a) of the Clean Water Act

[4] No reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is larger than 100 micrometers (0.004 inches).

#### Clean Air Act

none of the ingredients are listed

#### Right to Know Hazardous Substance List

##### - Hazardous Substance List (NJ-RTK)

Name of substance	Remarks	Classifications
cadmium (non-pyrophoric)		CA TE F3

##### Legend

CA Carcinogenic

F3 Flammable - Third Degree

TE Teratogenic

#### California Environmental Protection Agency (Cal/EPA): Proposition 65 - Safe Drinking Water and Toxic Enforcement Act of 1986

Proposition 65 List of chemicals		
Name acc. to inventory	Remarks	Type of the toxicity
cadmium		developmental, male
cadmium		
cadmium compounds		cancer

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### National inventories

Country	Inventory	Status
AU	AIIC	not all ingredients are listed
CA	DSL	all ingredients are listed
CN	IECSC	all ingredients are listed
EU	ECSI	not all ingredients are listed
EU	REACH Reg.	not all ingredients are listed
JP	CSCL-ENCS	not all ingredients are listed
KR	KECI	not all ingredients are listed
MX	INSQ	not all ingredients are listed
NZ	NZIoC	not all ingredients are listed
PH	PICCS	not all ingredients are listed
TR	CICR	not all ingredients are listed
TW	TCSI	all ingredients are listed
VN	NCI	not all ingredients are listed
US	TSCA	not all ingredients are listed

#### Legend

AIIC	Australian Inventory of Industrial Chemicals
CICR	Chemical Inventory and Control Regulation
CSCL-ENCS	List of Existing and New Chemical Substances (CSCL-ENCS)
DSL	Domestic Substances List (DSL)
ECSI	EC Substance Inventory (EINECS, ELINCS, NLP)
IECSC	Inventory of Existing Chemical Substances Produced or Imported in China
INSQ	National Inventory of Chemical Substances
KECI	Korea Existing Chemicals Inventory
NCI	National Chemical Inventory
NZIoC	New Zealand Inventory of Chemicals
PICCS	Philippine Inventory of Chemicals and Chemical Substances (PICCS)
REACH Reg.	REACH registered substances
TCSI	Taiwan Chemical Substance Inventory
TSCA	Toxic Substance Control Act

### 15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

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### SECTION 16: Other information

#### Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
29 CFR 1910.1000	29 CFR 1910.1000, Tables Z-1, Z-2, Z-3 - Occupational Safety and Health Standards: Toxic and Hazardous Substances (permissible exposure limits)
49 CFR US DOT	49 CFR U.S. Department of Transportation
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Acute Tox.	Acute toxicity
Aquatic Acute	Hazardous to the aquatic environment - acute hazard
Aquatic Chronic	Hazardous to the aquatic environment - chronic hazard
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BOD	Biochemical Oxygen Demand
Cal/OSHA PEL	California Division of Occupational Safety and Health (Cal/OSHA): Permissible Exposure Limits (PELs)
Carc.	Carcinogenicity
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
Ceiling-C	Ceiling value
COD	Chemical oxygen demand
DGR	Dangerous Goods Regulations (see IATA/DGR)
DNEL	Derived No-Effect Level
DOT	Department of Transportation (USA)
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval
ED	Endocrine disruptor
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
EmS	Emergency Schedule
ErC50	≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control
ERG No	Emergency Response Guidebook - Number
Eye Dam.	Seriously damaging to the eye

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Abbr.	Descriptions of used abbreviations
Eye Irrit.	Irritant to the eye
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
ICAO-TI	Technical instructions for the safe transport of dangerous goods by air
IMDG	International Maritime Dangerous Goods Code
IMDG-Code	International Maritime Dangerous Goods Code
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval
log KOW	n-Octanol/water
Muta.	Germ cell mutagenicity
NIOSH REL	National Institute for Occupational Safety and Health (NIOSH): Recommended Exposure Limits (RELs)
NLP	No-Longer Polymer
OSHA	Occupational Safety and Health Administration (United States)
PBT	Persistent, Bioaccumulative and Toxic
PEL	Workplace exposure limit
PNEC	Predicted No-Effect Concentration
ppm	Parts per million
Regulation OHS	Regulation respecting occupational health and safety: Permissible exposure values for airborne contaminants (Quebec)
Repr.	Reproductive toxicity
RTECS	Registry of Toxic Effects of Chemical Substances (database of NIOSH with toxicological information)
Skin Corr.	Corrosive to skin
Skin Irrit.	Irritant to skin
STEL	Short-term exposure limit
STOT RE	Specific target organ toxicity - repeated exposure
TLV®	Threshold Limit Values
TWA	Time-weighted average
vPvB	Very Persistent and very Bioaccumulative

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#### Key literature references and sources for data

Globally Harmonized System of Classification and Labelling of Chemicals ("Purple book").

Transport of dangerous goods by road or rail (49 CFR US DOT). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

#### Classification procedure

Physical and chemical properties: The classification is based on tested mixture.

Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

#### List of relevant phrases (code and full text as stated in section 2 and 3)

Code	Text
H302	Harmful if swallowed.
H303	May be harmful if swallowed.
H313	May be harmful in contact with skin.
H315	Causes skin irritation.
H316	Causes mild skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H341	Suspected of causing genetic defects.
H350	May cause cancer.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
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.
H402	Harmful to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

#### Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.