

# Safety Data Sheet

## S-6905

Version number: 11.0  
SDS Identifier: S-6905

Revision: 2024-03-19

### SECTION 1: Identification

#### 1.1 Product identifier

SDS Identifier **S-6905**  
Catalog numbers A-6905

#### 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: Hazard(s) 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.)	5	Acute Tox. 5	H333
hazardous to the aquatic environment - acute hazard	1	Aquatic Acute 1	H400
hazardous to the aquatic environment - chronic hazard	1	Aquatic Chronic 1	H410

For full text of abbreviations: see SECTION 16.

The most important adverse physicochemical, human health and environmental effects

Spillage and fire water can cause pollution of watercourses.

## S-6905

Version number: 11.0  
SDS Identifier: S-6905

Revision: 2024-03-19

### 2.2 Label elements

#### Labeling

- Signal word                      warning

- Pictograms

GHS09



- Hazard statements

H303+H333                      May be harmful if swallowed or if inhaled.

H410                                Very toxic to aquatic life with long lasting effects.

- Precautionary statements

P273                                Avoid release to the environment.

P301+P317                      IF SWALLOWED: Get medical help.

P304+P317                      IF INHALED: Get medical help.

P391                                Collect spillage.

P501                                Dispose of contents/container to industrial combustion plant.

- Hazardous ingredients for labelling                      zinc powder (non-pyrophoric), silica gel

### 2.3 Other hazards

#### Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance in a concentration of  $\geq 0.1\%$ .

#### Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) in a concentration of  $\geq 0.1\%$ .


## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not relevant (mixture)

### 3.2 Mixtures

#### Description of the mixture


Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms
zinc powder (non-pyrophoric)	CAS No 7440-66-6	61	Acute Tox. 5 / H303 Acute Tox. 5 / H333 Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410	

## Safety Data Sheet

### S-6905

Version number: 11.0  
SDS Identifier: S-6905

Revision: 2024-03-19

Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms
sodium citrate	CAS No 68-04-2	27	Acute Tox. 5 / H313	
silica gel	CAS No 112926-00-8 7631-86-9	11	Acute Tox. 5 / H313 Acute Tox. 5 / H333	
citric acid, monohydrate	CAS No 5949-29-1	1	Acute Tox. 5 / H313 Eye Irrit. 2 / H319	

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. Provide fresh air.

#### Following skin contact

Brush off loose particles from skin. 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

## S-6905

Version number: 11.0  
SDS Identifier: S-6905

Revision: 2024-03-19

### SECTION 5: Fire-fighting measures

#### 5.1 Extinguishing media

Suitable extinguishing media

Water, 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. Coordinate 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 vapors/dust/aerosols/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.

## S-6905

Version number: 11.0  
SDS Identifier: S-6905

Revision: 2024-03-19

### 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 the effects

#### Protect against external exposure, such as

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

#### - Ventilation requirements

Keep any substance that emits harmful vapors 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.

# Safety Data Sheet

## S-6905

Version number: 11.0  
SDS Identifier: S-6905

Revision: 2024-03-19

### 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
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	silica, amorphous - precipitated and gel	112926-00-8	PEL	706						partml	29 CFR 1910.1000
US	silica, amorphous - precipitated and gel	112926-00-8	PEL (CA)		3					r	Cal/ OSHA PEL
US	silica, amorphous	7631-86-9	REL		6 (10 h)						NIOSH REL

**Notation**

- appx-D see Appendix D - Substances with No Established RELs
- Ceiling-C ceiling value is a limit value above which exposure should not occur
- dust as dust
- i inhalable fraction
- 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)

## Safety Data Sheet

### S-6905

Version number: 11.0  
SDS Identifier: S-6905

Revision: 2024-03-19

Relevant PNECs of components						
Name of substance	CAS No	Endpoint	Threshold level	Organism	Environmental compartment	Exposure time
zinc powder (non-pyrophoric)	7440-66-6	PNEC	14.4 µg/l	aquatic organisms	freshwater	short-term (single instance)
zinc powder (non-pyrophoric)	7440-66-6	PNEC	7.2 µg/l	aquatic organisms	marine water	short-term (single instance)
zinc powder (non-pyrophoric)	7440-66-6	PNEC	100 µg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
zinc powder (non-pyrophoric)	7440-66-6	PNEC	146.9 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
zinc powder (non-pyrophoric)	7440-66-6	PNEC	162.2 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
zinc powder (non-pyrophoric)	7440-66-6	PNEC	83.1 mg/kg	terrestrial organisms	soil	short-term (single instance)
sodium citrate	68-04-2	PNEC	0.44 mg/l	aquatic organisms	freshwater	short-term (single instance)
sodium citrate	68-04-2	PNEC	0.044 mg/l	aquatic organisms	marine water	short-term (single instance)
sodium citrate	68-04-2	PNEC	1,000 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
sodium citrate	68-04-2	PNEC	34.6 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
sodium citrate	68-04-2	PNEC	3.46 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
sodium citrate	68-04-2	PNEC	33.1 mg/kg	terrestrial organisms	soil	short-term (single instance)
citric acid, monohydrate	5949-29-1	PNEC	0.44 mg/l	aquatic organisms	freshwater	short-term (single instance)
citric acid, monohydrate	5949-29-1	PNEC	0.044 mg/l	aquatic organisms	marine water	short-term (single instance)
citric acid, monohydrate	5949-29-1	PNEC	1,000 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
citric acid, monohydrate	5949-29-1	PNEC	34.6 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
citric acid, monohydrate	5949-29-1	PNEC	3.46 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
citric acid, monohydrate	5949-29-1	PNEC	33.1 mg/kg	terrestrial organisms	soil	short-term (single instance)

## S-6905

Version number: 11.0  
SDS Identifier: S-6905

Revision: 2024-03-19

### 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.

- 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: Zinc Foil Packs: Each foil pack contains approximately 1.5 g of solid. Each test kit and refill contains 30 foil packs

Physical state	solid (powder, granular)
Color	grey
Odor	odorless
Melting point/freezing point	≥150 °C
Boiling point or initial boiling point and boiling range	907 °C
Evaporation rate	not determined
Flammability	this material is combustible, but will not ignite readily
Lower and upper explosion limit	not determined



## Safety Data Sheet

### S-6905

Version number: 11.0  
SDS Identifier: S-6905

Revision: 2024-03-19

Flash point	not applicable
Auto-ignition temperature	725 °C
Decomposition temperature	not relevant
pH (value)	not applicable
Kinematic viscosity	not relevant
Solubility(ies)	not determined

#### Partition coefficient

Partition coefficient n-octanol/water (log value)	this information is not available
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Vapor pressure	1.33 hPa at 487 °C
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#### Density and/or relative density

Density	not determined
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.

## S-6905

Version number: 11.0  
SDS Identifier: S-6905

Revision: 2024-03-19

### 10.5 Incompatible materials

Oxidizers

### 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. May be harmful if inhaled.

#### - Acute toxicity estimate (ATE)

Oral 3,279 mg/kg  
Inhalation: dust/mist 7.423 mg/l/4h

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

Name of substance	CAS No	Exposure route	ATE
zinc powder (non-pyrophoric)	7440-66-6	oral	>2,000 mg/kg
zinc powder (non-pyrophoric)	7440-66-6	inhalation: dust/mist	>5.41 mg/l/4h
sodium citrate	68-04-2	dermal	>2,000 mg/kg
silica gel	112926-00-8 7631-86-9	dermal	>2,000 mg/kg
silica gel	112926-00-8 7631-86-9	inhalation: dust/mist	>5.01 mg/l/4h
citric acid, monohydrate	5949-29-1	dermal	>2,000 mg/kg

#### Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

#### Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

## Safety Data Sheet

### S-6905

Version number: 11.0  
SDS Identifier: S-6905

Revision: 2024-03-19

#### Respiratory or skin sensitization

Shall not be classified as a respiratory or skin sensitizer.

#### Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

#### Carcinogenicity

Shall not be classified as carcinogenic.

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

Name of substance	CAS No	Classification	Number
silica gel	7631-86-9	3	

#### Legend

3 Not classifiable as to carcinogenicity in humans

#### Reproductive toxicity

Shall not be classified as a reproductive toxicant.

#### Specific target organ toxicity - single exposure

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

#### Specific target organ toxicity - repeated exposure

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

#### Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

### 11.2 Information on other hazards

There is no additional information.

## 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
zinc powder (non-pyrophoric)	7440-66-6	LC50	315 µg/l	fish	96 h
zinc powder (non-pyrophoric)	7440-66-6	EC50	860 µg/l	aquatic invertebrates	48 h

## Safety Data Sheet

### S-6905

Version number: 11.0  
SDS Identifier: S-6905

Revision: 2024-03-19

#### Aquatic toxicity (acute) of components

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
zinc powder (non-pyrophoric)	7440-66-6	ErC50	2,700 µg/l	algae	48 h
sodium citrate	68-04-2	LC50	440 mg/l	fish	48 h
silica gel	112926-00-8 7631-86-9	LC50	>5,000 mg/l	fish	96 h
silica gel	112926-00-8 7631-86-9	LL50	>1,000 mg/l	fish	96 h
silica gel	112926-00-8 7631-86-9	EL50	>10,000 mg/l	aquatic invertebrates	24 h
silica gel	112926-00-8 7631-86-9	EC50	>5,000 mg/l	aquatic invertebrates	48 h
silica gel	112926-00-8 7631-86-9	ErC50	>173.1 mg/l	algae	72 h
citric acid, monohydrate	5949-29-1	LC50	440 mg/l	fish	48 h

#### Aquatic toxicity (chronic) of components

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
zinc powder (non-pyrophoric)	7440-66-6	LC50	330 µg/l	fish	95 h
zinc powder (non-pyrophoric)	7440-66-6	EC50	75 µg/l	fish	28 d
zinc powder (non-pyrophoric)	7440-66-6	EbC50	6,813 µg/l	aquatic invertebrates	21 d
zinc powder (non-pyrophoric)	7440-66-6	ErC50	410 µg/l	algae	10 d
silica gel	112926-00-8 7631-86-9	EC50	>2,500 mg/l	microorganisms	3 h

#### 12.2 Persistence and degradability

Data are not available.

#### 12.3 Bioaccumulative potential

Data are not available.

## Safety Data Sheet

### S-6905

Version number: 11.0  
SDS Identifier: S-6905

Revision: 2024-03-19

#### Bioaccumulative potential of components

Name of substance	CAS No	BCF	Log KOW	BOD5/COD
zinc powder (non-pyrophoric)	7440-66-6	69.48		
citric acid, monohydrate	5949-29-1		-1.55	

#### 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 3077
IMDG-Code	UN 3077
ICAO-TI	UN 3077

#### 14.2 UN proper shipping name

DOT	Environmentally hazardous substance, solid, n.o.s.
IMDG-Code	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
ICAO-TI	Environmentally hazardous substance, solid, n.o.s.
Technical name (hazardous ingredients)	zinc powder (non-pyrophoric)

## Safety Data Sheet

### S-6905

Version number: 11.0  
SDS Identifier: S-6905

Revision: 2024-03-19

#### 14.3 Transport hazard class(es)

DOT	9
IMDG-Code	9
ICAO-TI	9

#### 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)      zinc powder (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	UN3077, Environmentally hazardous substance, solid, n.o.s., (contains: zinc powder (non-pyrophoric)), 9, III
Reportable quantity (RQ)	1,639 lbs (744.3 kg) (zinc powder (non-pyrophoric))
Danger label(s)	9, fish and tree
	
Environmental hazards	yes (hazardous to the aquatic environment)
Special provisions (SP)	8, 146, 335, 384, 441, A112, B54, B120, IB8, IP3, N20, N91, T1, TP33

## Safety Data Sheet

### S-6905

Version number: 11.0  
SDS Identifier: S-6905

Revision: 2024-03-19

ERG No 171

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

Marine pollutant YES (hazardous to the aquatic environment) (zinc powder (non-pyrophoric))

Danger label(s) 9, fish and tree



Special provisions (SP) 274, 335, 966, 967, 969

Excepted quantities (EQ) E1

Limited quantities (LQ) 5 kg

EmS F-A, S-F

Stowage category A

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

Environmental hazards YES (hazardous to the aquatic environment)

Danger label(s) 9, fish and tree



Special provisions (SP) A97, A158, A179, A197, A215

Excepted quantities (EQ) E1

Limited quantities (LQ) 30 kg

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations specific for the product in question

#### National regulations (United States)

**Toxic Substance Control Act (TSCA)** all ingredients are listed (ACTIVE) or exempt from listing

#### 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

## Safety Data Sheet

### S-6905

Version number: 11.0  
SDS Identifier: S-6905

Revision: 2024-03-19

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

Toxics Release Inventory: Specific Toxic Chemical Listings		
Name of substance	Remarks	Effective date
zinc powder (non-pyrophoric)	fume or dust	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)
zinc powder (non-pyrophoric)	[4]	2	1000 (454)

##### 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
silica gel		
zinc powder (non-pyrophoric)		F3 R1

##### Legend

F3 Flammable - Third Degree

R1 Reactive - First Degree

#### California Environmental Protection Agency (Cal/EPA): Proposition 65 - Safe Drinking Water and Toxic Enforcement Act of 1987

none of the ingredients are listed

#### National inventories



## Safety Data Sheet

### S-6905

Version number: 11.0  
SDS Identifier: S-6905

Revision: 2024-03-19

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

## Safety Data Sheet

**S-6905**

Version number: 11.0  
SDS Identifier: S-6905

Revision: 2024-03-19

### SECTION 16: Other information, including date of preparation or last revision

#### 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
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)
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)
DOT	Department of Transportation (USA)
EbC50	≡ 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
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
EL50	Effective Loading 50 %: the EL50 corresponds to the loading rate required to produce a response in 50% of the test organisms
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
Eye Irrit.	Irritant to the eye

## Safety Data Sheet

### S-6905

Version number: 11.0  
SDS Identifier: S-6905

Revision: 2024-03-19

Abbr.	Descriptions of used abbreviations
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
LL50	Lethal Loading 50 %: the LL50 corresponds to the loading rate causing 50 % lethality
log KOW	n-Octanol/water
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	Permissible exposure limit
PNEC	Predicted No-Effect Concentration
ppm	Parts per million
RTECS	Registry of Toxic Effects of Chemical Substances (database of NIOSH with toxicological information)
STEL	Short-term exposure limit
TWA	Time-weighted average
vPvB	Very Persistent and very Bioaccumulative

#### 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).



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Version number: 11.0  
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#### List of relevant phrases (code and full text as stated in section 2 and 3)

Code	Text
H303	May be harmful if swallowed.
H313	May be harmful in contact with skin.
H319	Causes serious eye irritation.
H333	May be harmful if inhaled.
H400	Very toxic to aquatic life.
H410	Very 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.