

# Safety Data Sheet

acc. to OSHA HCS

Date of issue: 05/12/2025

Reviewed on 05/12/2025

## 1 Identification

- **Product identifier**
  - **Trade name:**
  - **Other means of identification**
  - **Product Code:** 9549
  - **Application of the substance / the mixture** Water treatment
  - **Uses advised against** Any use not specified above.
  - **Details of the supplier of the safety data sheet**
  - **Manufacturer/Supplier:**
- 
- **Information department:** Product safety department.
  - **Emergency telephone number:**  
The American Association of Poison Control Centers (24-hour hotline): 1-800-222-1222

## 2 Hazard(s) identification

- **Classification of the substance or mixture**

Skin corrosion 1A	H314 Causes severe skin burns and eye damage.
Eye damage 1	H318 Causes serious eye damage.
Reproductive toxicity 2	H361 Suspected of damaging fertility or the unborn child.
Specific target organ toxicity (single exposure) 3	H335 May cause respiratory irritation.

- **Label elements**

- **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms**



GHS05    GHS07    GHS08

- **Signal word** Danger

- **Hazard-determining components of labeling:**

Sodium Metasilicate Pentahydrate  
Methyl-1H-benzotriazole  
sodium diisopropyl naphthalenesulphonate

- **Hazard statements**

Causes severe skin burns and eye damage.  
Suspected of damaging fertility or the unborn child.  
May cause respiratory irritation.

- **Precautionary statements**

Obtain special instructions before use.  
Do not breathe dusts or mists.  
Wash thoroughly after handling.  
Use only outdoors or in a well-ventilated area.  
Wear eye protection / face protection.  
Wear protective gloves/protective clothing/eye protection/face protection.  
If swallowed: Rinse mouth. Do NOT induce vomiting.  
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].  
If inhaled: Remove person to fresh air and keep comfortable for breathing.  
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.  
Continue rinsing.

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- Immediately call a poison center/doctor.  
 IF exposed or concerned: Get medical advice/attention.  
 Wash contaminated clothing before reuse.  
 Store in a well-ventilated place. Keep container tightly closed.  
 Store locked up.  
 Dispose of contents/container in accordance with local regulations.
- **Information pertaining to particular dangers for man and environment:**
  - **Classification system:**
  - **HMIS-ratings (scale 0 - 4)**

HEALTH	3	Health = 3
FIRE	0	Fire = 0
REACTIVITY	0	Reactivity = 0

- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Classification according to (d)(1)(ii) of § 1910.1200**  
 The SDS issuer does not object to the classifications provided by importers or manufacturers of precursor products.
- **Hazards not otherwise classified**  
 There are no adverse physical or health effects known that are not covered by the hazard classes of the Hazard Communications Standard.

### 3 Composition/information on ingredients

- **Chemical characterization: Mixtures**
- **Description:** Mixture of the substances listed below with nonhazardous additions.

- **Dangerous components:**

CAS: 10213-79-3	Sodium Metasilicate Pentahydrate Consisting of: 6834-92-0 Disodium metasilicate (58%); 7732-18-5 Water (42%)	30 – 60%
CAS: 25322-68-3	Poly(oxy-1,2-ethanediyl), $\alpha$ -hydro- $\omega$ -hydroxy- Ethane-1,2-diol, ethoxylated	3 – 7%
CAS: 29385-43-1	Methyl-1H-benzotriazole	1 – 5%
CAS: 1322-93-6	sodium diisopropylnaphthalenesulphonate	1 – < 5%

### 4 First-aid measures

- **Description of first aid measures**
- **General information:** Immediately remove any clothing soiled by the product.
- **After inhalation:**  
 In case of inhalation:
  - Provide fresh air.
  - In case of breathing difficulties administer oxygen.
  - No mouth-to-mouth or mouth-to-nose resuscitation. Use respiratory bag or oxygen resuscitation apparatus.
  - Do not leave patient unattended.
 In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:**  
 Immediately wash with water and soap and rinse thoroughly.  
 If skin irritation continues, consult a doctor.  
 Chemical burns must be treated promptly by a physician.
- **After eye contact:**  
 Check for and remove any contact lenses.  
 Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:**  
 Rinse out mouth and then drink plenty of water.  
 Do not induce vomiting; call for medical help immediately.

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Drink copious amounts of water and provide fresh air. Immediately call a doctor.

· **Information for doctor:**

Inhalation of an aerosol of this substance may cause lung oedema.

Treat symptomatically and supportively.

· **Most important symptoms and effects, both acute and delayed** Corrosive damage to gastro-intestinal tract.

· **Danger** Danger of gastric perforation.

· **Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

## 5 Fire-fighting measures

· **Extinguishing media**

· **Suitable extinguishing agents:**

CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Use fire fighting measures that suit the environment.

· **For safety reasons unsuitable extinguishing agents:** Water with full jet

· **Special hazards arising from the substance or mixture**

Corrosive.

In case of fire, the following can be released:

Carbon monoxide and carbon dioxide

Phosphorous oxides

Silicon compounds

Sulphur Oxides (SO<sub>x</sub>)

Toxic metal oxide smoke

· **Advice for firefighters**

· **Protective equipment:**

Wear self-contained respiratory protective device.

Do not inhale explosion gases or combustion gases.

Wear fully protective suit.

· **Additional information**

Cool endangered receptacles with water spray.

Collect contaminated fire fighting water separately. It must not enter the sewage system.

## 6 Accidental release measures

· **Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

· **Environmental precautions:**

Do not allow product to reach sewage system or any water course in the undiluted form.

· **Methods and material for containment and cleaning up:**

Pick up mechanically.

Ensure adequate ventilation.

· **Protective Action Criteria for Chemicals**

· **PAC-1:**

CAS: 10213-79-3	Sodium Metasilicate Pentahydrate	6.6 mg/m <sup>3</sup>
CAS: 25322-68-3	Poly(oxy-1,2-ethanediyl),α-hydro-ω-hydroxy- Ethane-1,2-diol, ethoxylated	30 mg/m <sup>3</sup>
CAS: 29385-43-1	Methyl-1H-benzotriazole	2 mg/m <sup>3</sup>
CAS: 557-05-1	Zinc stearate	30 mg/m <sup>3</sup>

· **PAC-2:**

CAS: 10213-79-3	Sodium Metasilicate Pentahydrate	73 mg/m <sup>3</sup>
CAS: 25322-68-3	Poly(oxy-1,2-ethanediyl),α-hydro-ω-hydroxy- Ethane-1,2-diol, ethoxylated	1,300 mg/m <sup>3</sup>
CAS: 29385-43-1	Methyl-1H-benzotriazole	22 mg/m <sup>3</sup>
CAS: 557-05-1	Zinc stearate	330 mg/m <sup>3</sup>

· **PAC-3:**

CAS: 10213-79-3	Sodium Metasilicate Pentahydrate	440 mg/m <sup>3</sup>
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CAS: 25322-68-3	Poly(oxy-1,2-ethanediyl), $\alpha$ -hydro- $\omega$ -hydroxy- Ethane-1,2-diol, ethoxylated	7,700 mg/m <sup>3</sup>
CAS: 29385-43-1	Methyl-1H-benzotriazole	130 mg/m <sup>3</sup>
CAS: 557-05-1	Zinc stearate	2,000 mg/m <sup>3</sup>

- **Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## 7 Handling and storage

- **Precautions for safe handling**

Prevent formation of dust.

Ensure good ventilation/exhaustion at the workplace.

Safety showers and eye wash facilities should be available at the work area.

- **Information about protection against explosions and fires:** Keep respiratory protective device available.

- **Conditions for safe storage, including any incompatibilities**

- **Storage:**

- **Requirements to be met by storerooms and receptacles:** Prevent any seepage into the ground.

- **Information about storage in one common storage facility:**

Do not store together with acids.

Store away from oxidizing agents.

- **Further information about storage conditions:** Store in cool, dry conditions in well sealed receptacles.

- **Storage class:** 8 B

- **Specific end use(s)** No further relevant information available.

## 8 Exposure controls/personal protection

- **Control parameters**

- **Components with limit values that require monitoring at the workplace:**

The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

**CAS: 25322-68-3 Poly(oxy-1,2-ethanediyl), $\alpha$ -hydro- $\omega$ -hydroxy- Ethane-1,2-diol, ethoxylated**

WEEL	Long-term value: 10 mg/m <sup>3</sup> (H); MW>200
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- **Additional information:** The lists that were valid during the creation were used as basis.

- **Exposure controls**

- **Appropriate engineering controls** No further data; see section 7.

- **Personal protective equipment:**

Select PPE appropriate for the operations taking place taking into account the product properties.

- **General protective and hygienic measures:**

The usual precautionary measures for handling chemicals should be followed.

Take note of assigned Workplace Exposure Limits.

Do not breathe dust

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Pregnant women should strictly avoid inhalation or skin contact.

Ensure that eyewash stations and safety showers are close to the workstation location.

- **Breathing equipment:** Not necessary if room is well-ventilated.

- **Protection of hands:**



Protective gloves.

Use gloves tested and approved under appropriate government standards such as NIOSH (US) or EN374 (EU).

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The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

### · Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

### · Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

### · Eye protection:



Tightly sealed goggles conforming to EN166.

### · Body protection:



Protective work clothing

Do not get on skin or clothing. Wear clothing and footwear that cannot be penetrated by the product. Suitable protective equipment may include: Chemical resistant boots, Chemical resistant apron, Full chemical protective suit with a hood, Chemical protective suit consisting of a jacket and trousers. The jacket should be buttoned up to the neck, sleeves sealed at the gloves, and trouser legs worn outside the boots. These precautions are required to prevent the clothing from accidentally trapping product against the skin.

### · Limitation and supervision of exposure into the environment

Do not allow to enter drains, sewers or watercourses.

## 9 Physical and chemical properties

### · Information on basic physical and chemical properties

#### · General Information

#### · Physical state

Solid

#### · Color:

White

#### · Odor:

Odorless

#### · Odor threshold:

Not determined.

#### · Melting point/Melting range:

Undetermined.

#### · Boiling point/Boiling range:

Undetermined.

#### · Flammability:

Not determined.

#### · Explosion limits:

#### · Lower:

Not determined.

#### · Upper:

Not determined.

#### · Flash point:

Not applicable.

#### · Decomposition temperature:

Not determined.

#### · pH-value at 20 °C (68 °F):

12 – 13 (1%)

#### · Viscosity:

#### · Kinematic:

Not applicable.

#### · Dynamic:

Not applicable.

#### · Solubility in / Miscibility with

#### · Water:

Soluble.

#### · Partition coefficient (n-octanol/water):

Not determined.

#### · Vapor pressure:

Not applicable.

#### · Vapor pressure:

#### · Density at 20 °C (68 °F):

~ 1.5 g/cm<sup>3</sup> (~ 12.518 lbs/gal)

#### · Relative density

Not determined.

#### · Vapor density

Not applicable.

#### · Particle characteristics

Not determined.

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- **Other information**
- **Appearance:**
- **Form:** Tablets
- **Important information on protection of health and environment, and on safety.**
- **Ignition temperature:** Product is not selfigniting.
- **Danger of explosion:** Product does not present an explosion hazard.
- **Solvent content:**
- **Solids content:** 100.0 %
- **Change in condition**
- **Evaporation rate** Not applicable.

## 10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions**
  - Exothermic reaction with acids.
  - Reacts with oxidizing agents.
- **Conditions to avoid** Heat and static discharge.
- **Incompatible materials:**
  - Strong acids.
  - Strong oxidising agents.
- **Hazardous decomposition products:**
  - Carbon monoxide and carbon dioxide
  - Phosphorus oxides (e.g. P<sub>2</sub>O<sub>5</sub>)
  - Silicon compounds
  - Sulfur oxides (SO<sub>x</sub>)
  - Toxic metal oxide smoke

## 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

### · LD/LC50 values that are relevant for classification:

#### ATE (Acute Toxicity Estimate)

Oral	LD50	8,234.2 mg/kg
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#### CAS: 25322-68-3 Poly(oxy-1,2-ethanediyl), $\alpha$ -hydro- $\omega$ -hydroxy- Ethane-1,2-diol, ethoxylated

Oral	LD50	> 5,000 mg/kg (rat)
Dermal	LD50	> 5,000 mg/kg (rabbit)

#### CAS: 29385-43-1 Methyl-1H-benzotriazole

Oral	LD50	720 mg/kg (rat)
Dermal	LD50	> 2,000 mg/kg (rabbit)

- **Primary irritant effect:**
- **on the skin:** Strong caustic effect on skin and mucous membranes.
- **on the eye:** Strong caustic effect.
- **Sensitization:**
  - No sensitizing effects known.
  - Based on available data, the classification criteria are not met.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Suspected of damaging fertility or the unborn child.
- **Specific target organ toxicity - single exposure** May cause respiratory irritation.

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- **Specific target organ toxicity - repeated exposure**

Based on available data, the classification criteria are not met.

- **Aspiration hazard** Based on available data, the classification criteria are not met.

- **Additional toxicological information:**

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of oesophagus and stomach.

Inhalation may cause lung oedema, but only after initial corrosive effects on eyes and/or airways have become manifest. The symptoms of lung oedema often do not become manifest until a few hours have passed and they are aggravated by physical effort. Rest and medical observation are therefore essential. Immediate administration of an appropriate inhalation therapy by a doctor or a person authorized by him/her, should be considered.

- **Interactive effects** No interactive effects between components are known.

- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

None of the ingredients is listed.

- **NTP (National Toxicology Program)**

None of the ingredients is listed.

- **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

- **Alternative sources for toxicological information**

No non-standard sources for toxicological information where used.

## 12 Ecological information

- **Toxicity**

- **Aquatic toxicity:**

**CAS: 25322-68-3 Poly(oxy-1,2-ethanediyl), $\alpha$ -hydro- $\omega$ -hydroxy- Ethane-1,2-diol, ethoxylated**

EC50 (96 h) > 1,000 mg/l (Daphnia)

> 100 mg/l (guppy)

EC50 (48 h) > 100 mg/l (Daphnia)

- **Persistence and degradability** No further relevant information available.

- **Bioaccumulative potential** Product is not expected to bioaccumulate.

- **Mobility in soil** No further relevant information available.

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

- **Other adverse effects**

- **Additional ecological information:**

- **General notes:**

Must not reach bodies of water or drainage ditch undiluted or unneutralized.

Water hazard class 2 (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

## 13 Disposal considerations

- **Waste treatment methods**

- **Recommendation:**

Recommended Hierarchy of Controls:

- Minimize waste;

- Reuse if not contaminated;

- Recycle, if possible; or

- Safe disposal (if all else fails).

Small amounts may be diluted with plenty of water and washed away. Dispose of bigger amounts in accordance with Local Authority requirements.

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Contact waste processors for recycling information.

· **Uncleaned packagings:**

· **Recommendation:**

Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning.

Disposal must be made according to official regulations.

Container remains hazardous when empty. Continue to observe all precautions.

Containers, even those that are "empty," may contain residues that can develop flammable and/or hazardous vapours upon heating. Do not cut, drill, grind, weld, or perform similar operations on or near empty containers.

· **Recommended cleansing agent:** Water, if necessary with cleansing agents.

## 14 Transport information

· **UN-Number**

· **DOT, ADR/RID/ADN, IMDG, IATA** UN3262

· **UN proper shipping name**

· **DOT**

Corrosive solid, basic, inorganic, n.o.s. (Disodium trioxosilicate, sodium diisopropylnaphthalenesulphonate)

· **ADR/RID/ADN**

UN3262 CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (DISODIUM TRIOXOSILICATE, sodium diisopropylnaphthalenesulphonate)

· **IMDG, IATA**

CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (DISODIUM TRIOXOSILICATE, sodium diisopropylnaphthalenesulphonate)

· **Transport hazard class(es)**

· **DOT**



· **Class**

8 Corrosive substances

· **Label**

8

· **ADR/RID/ADN**



· **Class**

8 (C6) Corrosive substances

· **Label**

8

· **IMDG, IATA**



· **Class**

8 Corrosive substances

· **Label**

8

· **Packing group**

· **DOT, ADR/RID/ADN, IMDG, IATA** III

· **Environmental hazards:**

Not applicable.

· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable.

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## · Transport/Additional information:

### · ADR/RID/ADN

#### · Excepted quantities (EQ)

Code: E1

Maximum net quantity per inner packaging: 30 g

Maximum net quantity per outer packaging: 1000 g

### · IMDG

#### · Limited quantities (LQ)

5 kg

#### · Excepted quantities (EQ)

Code: E1

Maximum net quantity per inner packaging: 30 g

Maximum net quantity per outer packaging: 1000 g

### · Special precautions for user

Warning: Corrosive substances

### · Hazard identification number (Kemler code):

80

### · EMS Number:

F-A,S-B

### · Segregation groups

(SGG18) Alkalis

### · Stowage Category

B

### · Segregation Code

SG35 Stow "separated from" SGG1-acids

### · UN "Model Regulation":

UN 3262 CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (DISODIUM TRIOXOSILICATE, SODIUM DIISOPROPYLNAPHTHALENESULPHONATE), 8, III

## 15 Regulatory information

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

No further relevant information available.

### · Sara

#### · Section 355 (extremely hazardous substances):

None of the ingredient is listed.

#### · Section 313 (Specific toxic chemical listings):

CAS: 557-05-1 | Zinc stearate

#### · TSCA (Toxic Substances Control Act):

All ingredients are listed as ACTIVE.

#### · Hazardous Air Pollutants

None of the ingredients is listed.

#### · Proposition 65

##### · Chemicals known to cause cancer:

None of the ingredients is listed.

##### · Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

##### · Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

##### · Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

#### · Cancerogenity categories

##### · EPA (Environmental Protection Agency)

CAS: 557-05-1 | Zinc stearate

D, I, II

##### · TLV (Threshold Limit Value)

None of the ingredients is listed.

##### · NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

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- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Department issuing SDS:** Product safety department.

- **Date of previous version** 05/09/2025

- **Date of preparation** 05/12/2025

- **Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

HMIS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Skin corrosion 1A: Skin corrosion/irritation – Category 1A

Eye damage 1: Serious eye damage/eye irritation – Category 1

Reproductive toxicity 2: Reproductive toxicity – Category 2

Specific target organ toxicity (single exposure) 3: Specific target organ toxicity (single exposure) – Category 3

- **\* Data compared to the previous version altered.**

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