

# Safety Data Sheet

## acc. to OSHA HCS

Date of issue: 08/28/2025

Reviewed on 08/28/2025

### 1 Identification



- **Other means of identification**
- **Trade name:**
- **Product Code:** 5324
- **Application of the substance / the mixture** Water treatment
- **Uses advised against**
  - Any use carrying a risk of direct contact with eyes/skin where workers are exposed without adequate personal protective equipment (PPE).
  - Any use involving significant release of dust, vapour or mist in the breathing zone of workers where they are exposed without suitable respiratory protective equipment (RPE).
  - Processes involving extreme heat use advised against.
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
  
- **Information department:** Product safety department.
- **Emergency telephone number:**
  - InfoTrac: Call 800-535-5053.
  - 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 irritation 2	H315 Causes skin irritation.
Eye irritation 2A	H319 Causes serious eye irritation.
Reproductive toxicity 2	H361 Suspected of damaging fertility or the unborn child.
- **Label elements**
- **GHS label elements**

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

GHS07
GHS08
- **Signal word** Warning
- **Hazard-determining components of labeling:**
  - Triazole derivative, neutralised
  - Sodium 4(or 5)-methyl-1H-benzotriazolide
- **Hazard statements**
  - Causes skin irritation.
  - Causes serious eye irritation.
  - Suspected of damaging fertility or the unborn child.
- **Precautionary statements**
  - Obtain special instructions before use.
  - Do not handle until all safety precautions have been read and understood.
  - Wash thoroughly after handling.
  - Wear protective gloves / eye protection / face protection.
  - Wear protective gloves/protective clothing/eye protection/face protection.
  - If on skin: Wash with plenty of water.
  - 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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IF exposed or concerned: Get medical advice/attention.  
 Take off contaminated clothing and wash it before reuse.  
 If skin irritation occurs: Get medical advice/attention.  
 If eye irritation persists: Get medical advice/attention.  
 Store locked up.  
 Dispose of contents/container in accordance with local regulations.

· **Classification system:**

· **NFPA ratings (scale 0 - 4)**



· **HMIS-ratings (scale 0 - 4)**



· **Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

### 3 Composition/information on ingredients

· **Chemical characterization: Mixtures**

· **Description:** Mixture of the substances listed below with nonhazardous additions.

· **Dangerous components:**

	Triazole derivative, neutralised ⚠ Reproductive toxicity 2, H361; ⚠ Acute toxicity - oral 4, H302; Skin irritation 2, H315; Eye irritation 2A, H319 ATE: LD50 oral: 500 mg/kg	10 – 30%
CAS: 64665-57-2	Sodium 4(or 5)-methyl-1H-benzotriazolide ⚠ Reproductive toxicity 2, H361; ⚠ Skin corrosion 1B, H314; ⚠ Acute toxicity - oral 4, H302 ATE: LD50 oral: 500 mg/kg	1%

· **Additional information:**

Neutralisation products are a complex mixture of substances in ionic equilibrium.  
 For the wording of the listed hazard phrases refer to section 16.

### 4 First-aid measures

· **Description of first aid measures**

· **General information:** Immediately remove any clothing soiled by the product.

· **After inhalation:** Supply fresh air; consult doctor in case of complaints.

· **After skin contact:**

Immediately rinse with water.

If skin irritation continues, consult a doctor.

· **After eye contact:**

Check for and remove any contact lenses.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· **After swallowing:**

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; call for medical help immediately.

If vomiting occurs spontaneously, keep head below hips to prevent aspiration.

· **Information for doctor:** Treat symptomatically and supportively.

· **Most important symptoms and effects, both acute and delayed** No further relevant information available.

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- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

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## 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**  
In case of fire, the following can be released:  
Nitrogen oxides (NO<sub>x</sub>)  
Carbon monoxide (CO)  
Sulphur Oxides (SO<sub>x</sub>)  
Toxic metal oxide smoke  
Solid product. Product will melt and combustion may occur when exposed to fire conditions.
- **Advice for firefighters**
- **Protective equipment:**  
Do not inhale explosion gases or combustion gases.  
Wear self-contained respiratory protective device.  
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.  
Avoid formation of dust.  
Ensure adequate ventilation
- **Environmental precautions:**  
Do not allow to penetrate the ground/soil.  
Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Pick up mechanically.  
Ensure adequate ventilation.  
Send for recovery or disposal in suitable receptacles.
- **Protective Action Criteria for Chemicals**

### · PAC-1:

CAS: 64665-57-2	Sodium 4(or 5)-methyl-1H-benzotriazolide	2.2 mg/m <sup>3</sup>
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### · PAC-2:

CAS: 64665-57-2	Sodium 4(or 5)-methyl-1H-benzotriazolide	24 mg/m <sup>3</sup>
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### · PAC-3:

CAS: 64665-57-2	Sodium 4(or 5)-methyl-1H-benzotriazolide	150 mg/m <sup>3</sup>
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### · **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**  
Ensure good ventilation/exhaustion at the workplace.

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- Prevent formation of dust.
- Avoid direct contact (skin/eye contact, ingestion and/or inhalation of fume/mist/dust) with the product in the undiluted form.
- Safety showers and eye wash facilities should be available at the work area.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
  - Prevent any seepage into the ground.
  - Do not store in aluminium, copper, zinc containers.
- **Information about storage in one common storage facility:**
  - Store away from oxidizing agents.
  - Do not store together with acids.
- **Further information about storage conditions:**
  - Store in cool, dry conditions in well sealed receptacles.
  - Protect from heat and direct sunlight.
- **Storage class:** 11
- **Specific end use(s)** No further relevant information available.

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## 8 Exposure controls/personal protection

- **Control parameters**
- **Components with limit values that require monitoring at the workplace:**
  - The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **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:**
  - Do not breathe dust
  - Do not eat, drink, smoke or sniff while working.
  - 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.
- **Breathing equipment:**
  - Use suitable respiratory protective device in case of insufficient ventilation.
  - Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
  - If respiratory protection is required, institute a complete respiratory protection program including selection, fit testing, training, maintenance and inspection.
- **Protection of hands:**
  -  Protective gloves.
  - Use gloves tested and approved under appropriate government standards such as NIOSH (US) or EN374 (EU).
  - 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.

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### · Eye protection:



Safety glasses with side-shields conforming to EN166.  
Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

### · Body protection:



Impervious protective clothing

Body protection must be chosen depending on product properties, activity and possible exposure.

### · 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:	Whitish
· Odor:	Mild
· 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):	8 – 9 (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:	Not determined.
· Relative density	Not determined.
· Vapor density	Not applicable.
· Particle characteristics	Not applicable.

#### · Other information

NOTE: The physical data presented above are typical values and should not be construed as a specification.

#### · Appearance:

#### · Form:

Solid

#### · 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:

#### · VOC content:

0.00 %

#### · Change in condition

#### · Evaporation rate

Not applicable.

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### 10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used and stored according to specifications.
- **Possibility of hazardous reactions** Reacts with oxidizing agents.
- **Conditions to avoid** Heat and static discharge.
- **Incompatible materials:**  
Strong oxidising agents.  
Strong acids.
- **Hazardous decomposition products:**  
Carbon monoxide and carbon dioxide  
Nitrogen oxides (NO<sub>x</sub>)  
Toxic metal oxide smoke

### 11 Toxicological information

- **Information on toxicological effects**
  - **Acute toxicity:** Based on available data, the classification criteria are not met.
  - **LD/LC50 values that are relevant for classification:**
- | ATE (Acute Toxicity Estimate) |      |               |
|-------------------------------|------|---------------|
| Oral                          | LD50 | 2,631.6 mg/kg |
- **Primary irritant effect:**
  - **on the skin:**  
Causes skin irritation.
  - **on the eye:**  
Causes serious eye irritation.
  - **Sensitization:** 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**  
Based on available data, the classification criteria are not met.
  - **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.
  - **Subacute to chronic toxicity:** Prolonged or repeated skin contact may irritate and cause dermatitis.
  - **Additional toxicological information:**  
ROUTES OF EXPOSURE: Can be absorbed into the body by inhalation and by ingestion.

- **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.

### 12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** The organic portion of the product is biodegradable.
- **Bioaccumulative potential** Product is not expected to bioaccumulate.

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- **Mobility in soil** No further relevant information available.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects**
- **Remark:** Harmful to fish
- **Additional ecological information:**
- **General notes:**
  - Harmful to aquatic organisms
  - Must not reach bodies of water or drainage ditch undiluted or unneutralized.
  - Water hazard class 3 (Self-assessment): extremely hazardous for water
  - Do not allow product to reach ground water, water course or sewage system, even in small quantities.
  - Danger to drinking water if even extremely 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).
  - Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
  - 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.
  - Containers, even those that are "empty," may contain residues that can develop hazardous gases and 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

- |  |  |
|--|--|
| · <b>UN-Number</b>   |  |
| · <b>DOT, ADR/RID/ADN, ADN, IMDG, IATA</b>                                       | Void   |
| · <b>UN proper shipping name</b>   |  |
| · <b>DOT, ADR/RID/ADN, ADN, IMDG, IATA</b>                                       | Void   |
| · <b>Transport hazard class(es)</b>  |  |
| · <b>DOT, ADR/RID/ADN, ADN, IMDG, IATA</b>                                       |  |
| · <b>Class</b>   | Void   |
| · <b>Packing group</b>   |  |
| · <b>DOT, ADR/RID/ADN, IMDG, IATA</b>  | Void   |
| · <b>Environmental hazards:</b>  | Not applicable.                                      |
| · <b>Special precautions for user</b>  | Not applicable.                                      |
| · <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b> | Not applicable.                                      |
| · <b>Transport/Additional information:</b>                                       | Not dangerous according to the above specifications. |
| · <b>UN "Model Regulation":</b>  | Void   |

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### 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):**

None of the ingredients is listed.

- **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.

- **Carcinogenicity categories**

- **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

- **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.

- **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.

- **Relevant phrases**

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H361 Suspected of damaging fertility or the unborn child.

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

- **Date of previous version** 06/06/2023

- **Version number of previous version:** 2

- **Date of preparation** 08/28/2025

- **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)

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NFPA: National Fire Protection Association (USA)  
HMIS: Hazardous Materials Identification System (USA)  
VOC: Volatile Organic Compounds (USA, EU)  
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  
Acute toxicity - oral 4: Acute toxicity – Category 4  
Skin corrosion 1B: Skin corrosion/irritation – Category 1B  
Skin irritation 2: Skin corrosion/irritation – Category 2  
Eye irritation 2A: Serious eye damage/eye irritation – Category 2A  
Reproductive toxicity 2: Reproductive toxicity – Category 2

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

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