

Safety Data Sheet

acc. to OSHA HCS

Date of issue: 09/09/2025

Reviewed on 09/01/2025

1 Identification

- **Other means of identification**
- **Trade name:**
- **Product Code:** 5561
- **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).
Processes involving extreme heat use advised against.
Processes where workers who may be pregnant or breastfeeding could potentially come into direct contact with the undiluted product.
- **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. |
| Sensitization - skin 1 | H317 May cause an allergic skin reaction. |
| Reproductive toxicity 2 | H361 Suspected of damaging fertility or the unborn child. |
| Specific target organ toxicity (repeated exposure) 2 | H373 May cause damage to organs through prolonged or repeated exposure. |

- **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:**
Hydroxyphosphono acetic acid, neutralised
Methyl-1H-benzotriazole
- **Hazard statements**
Causes skin irritation.
Causes serious eye irritation.
May cause an allergic skin reaction.
Suspected of damaging fertility or the unborn child.
May cause damage to organs through prolonged or repeated exposure.
- **Precautionary statements**
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.

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- Avoid breathing dust.
 Wash thoroughly after handling.
 Contaminated work clothing must not be allowed out of the workplace.
 Avoid release to the environment.
 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.
 IF exposed or concerned: Get medical advice/attention.
 Get medical advice/attention if you feel unwell.
 Take off contaminated clothing and wash it before reuse.
 If skin irritation or rash 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:**

| | | |
|-----------------|--|-----------|
| | Inorganic base, neutralised ⚠ Skin irritation 2, H315 | 10 – 30% |
| | Sulfonated co-polymer, neutralised ⚠ Eye irritation 2A, H319 | 10 – 30% |
| | Phosphonobutane tricarboxylic acid, neutralised ⚠ Skin irritation 2, H315 | 5 – < 10% |
| | Hydroxyphosphono acetic acid, neutralised ⚠ Specific target organ toxicity (repeated exposure) 2, H373; ⚠ Acute toxicity - oral 4, H302; Skin irritation 2, H315; Eye irritation 2A, H319; Sensitization - skin 1, H317 | 5 – < 10% |
| | Etidronic acid, neutralised ⚠ Acute toxicity - oral 4, H302; Eye irritation 2A, H319 ATE: LD50 oral: 500 mg/kg | 5 – < 10% |
| CAS: 29385-43-1 | Methyl-1H-benzotriazole ⚠ Reproductive toxicity 2, H361; ⚠ Acute toxicity - oral 4, H302 | 1 – 5% |

· **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.

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

5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
CO₂, 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:
Carbon monoxide (CO)
Nitrogen oxides (NO_x)
Sulphur Oxides (SO_x)
Toxic metal oxide smoke
Phosphorous oxides
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**
Ensure adequate ventilation
Avoid formation of dust.
Wear protective equipment. Keep unprotected persons away.
- **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.
Send for recovery or disposal in suitable receptacles.
Ensure adequate ventilation.

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· Protective Action Criteria for Chemicals

· PAC-1:

| | | |
|-----------------|--------------------------------|----------------------|
| | Poly(maleic acid), Neutralised | 30 mg/m ³ |
| CAS: 29385-43-1 | Methyl-1H-benzotriazole | 2 mg/m ³ |

· PAC-2:

| | | |
|-----------------|--------------------------------|-----------------------|
| | Poly(maleic acid), Neutralised | 330 mg/m ³ |
| CAS: 29385-43-1 | Methyl-1H-benzotriazole | 22 mg/m ³ |

· PAC-3:

| | | |
|-----------------|--------------------------------|-------------------------|
| | Poly(maleic acid), Neutralised | 2,000 mg/m ³ |
| CAS: 29385-43-1 | Methyl-1H-benzotriazole | 130 mg/m ³ |

· 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

Avoid direct contact (skin/eye contact, ingestion and/or inhalation of fume/mist/dust) with the product in the undiluted form.

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of dust.

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.

Store only in the original receptacle.

· Information about storage in one common storage facility:

Store away from oxidizing agents.

Store away from foodstuffs.

· Further information about storage conditions:

Keep receptacle tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

· Storage class: 11

· 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 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 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.

Do not inhale dust / smoke / mist.

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Pregnant women should strictly avoid inhalation or skin contact.

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

· **Breathing equipment:** Use suitable respiratory protective device in case of insufficient ventilation.

· **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.

· **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:**



Protective work 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:**

White

· **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.

· **Auto igniting:**

> 250 °C (> 482 °F)

· **Decomposition temperature:**

Not determined.

· **pH-value at 20 °C (68 °F):**

7 – 8 (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.

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| | |
|--|--|
| · Vapor pressure: | |
| · Density: | Not determined. |
| · Relative density | Not determined. |
| · Vapor density | Not applicable. |
| · Particle characteristics | Not determined. |
| · 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. |

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.
To avoid thermal decomposition do not overheat.
- **Possibility of hazardous reactions** Reacts with oxidizing agents.
- **Conditions to avoid** Heat and static discharge.
- **Incompatible materials:** Strong acids and oxidising agents
- **Hazardous decomposition products:**
Nitrogen oxides (NO_x)
Carbon monoxide and carbon dioxide
Phosphorus oxides (e.g. P₂O₅)
Sulfur oxides (SO_x)
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:

Poly(maleic acid), Neutralised

| | | |
|------|------|---------------------|
| Oral | LD50 | > 5,000 mg/kg (rat) |
|------|------|---------------------|

Hydroxyphosphono acetic acid, neutralised

| | | |
|------|------|-------------------|
| Oral | LD50 | 2,766 mg/kg (rat) |
|------|------|-------------------|

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:**
Causes skin irritation.
- **on the eye:**
Causes serious eye irritation.
- **Sensitization:** May cause an allergic skin reaction.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.

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- **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.
Repeated or prolonged skin contact may induce sensitisation.
- **Carcinogenic categories**

| |
|---|
| · IARC (International Agency for Research on Cancer) |
|---|

| |
|------------------------------------|
| None of the ingredients is listed. |
|------------------------------------|

| |
|--|
| · NTP (National Toxicology Program) |
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| |
|------------------------------------|
| None of the ingredients is listed. |
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| |
|--|
| · OSHA-Ca (Occupational Safety & Health Administration) |
|--|

| |
|------------------------------------|
| None of the ingredients is listed. |
|------------------------------------|

12 Ecological information

- **Toxicity**

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|----------------------------|
| · Aquatic toxicity: |
|----------------------------|

| | |
|------------------|----------------------|
| LC50 (48h) Acute | 1,020 mg/L (Daphnia) |
|------------------|----------------------|

| | |
|---------------------------------------|--|
| Poly(maleic acid), Neutralised | |
|---------------------------------------|--|

| | |
|-------------|-------------------------|
| EC50 (96 h) | > 1,000 mg/l (Bacteria) |
|-------------|-------------------------|

| | |
|--|--|
| Hydroxyphosphono acetic acid, neutralised | |
|--|--|

| | |
|-------------|-----------------|
| EC50 (96 h) | 380 mg/l (Fish) |
|-------------|-----------------|

| | |
|-------------|-----------------|
| EC50 (72 h) | 15 mg/l (Algae) |
|-------------|-----------------|

- **Persistence and degradability** The organic portion of the product is biodegradable.
- **Bioaccumulative potential** Contains components with the potential 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**
- **Remark:** Harmful to fish
- **Additional ecological information:**
- **General notes:**
Harmful to aquatic organisms
Water hazard class 1 (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

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.

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

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. |
|------------------------------------|

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| |
|---|
| <ul style="list-style-type: none"> · Chemicals known to cause developmental toxicity: |
| <p>None of the ingredients is listed.</p> |

- **Carcinogenicity categories**

| |
|--|
| <ul style="list-style-type: none"> · EPA (Environmental Protection Agency) |
| <p>None of the ingredients is listed.</p> |

| |
|--|
| <ul style="list-style-type: none"> · TLV (Threshold Limit Value) |
| <p>None of the ingredients is listed.</p> |

| |
|---|
| <ul style="list-style-type: none"> · NIOSH-Ca (National Institute for Occupational Safety and Health) |
| <p>None of the ingredients is listed.</p> |

- **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.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H361 Suspected of damaging fertility or the unborn child.

H373 May cause damage to organs through prolonged or repeated exposure.

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

- **Date of previous version** 05/14/2024

- **Date of preparation** 09/09/2025

- **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)

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 irritation 2: Skin corrosion/irritation – Category 2

Eye irritation 2A: Serious eye damage/eye irritation – Category 2A

Sensitization - skin 1: Skin sensitisation – Category 1

Reproductive toxicity 2: Reproductive toxicity – Category 2

Specific target organ toxicity (repeated exposure) 2: Specific target organ toxicity (repeated exposure) – Category 2

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