US

Safety Data Sheet acc. to OSHA HCS

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1 Identification

- · Product identifier
- · Trade name:
- · Article number: 4434
- · Application of the substance / the mixture Water treatment
- · Uses advised against
- Processes involving extreme heat use advised against.

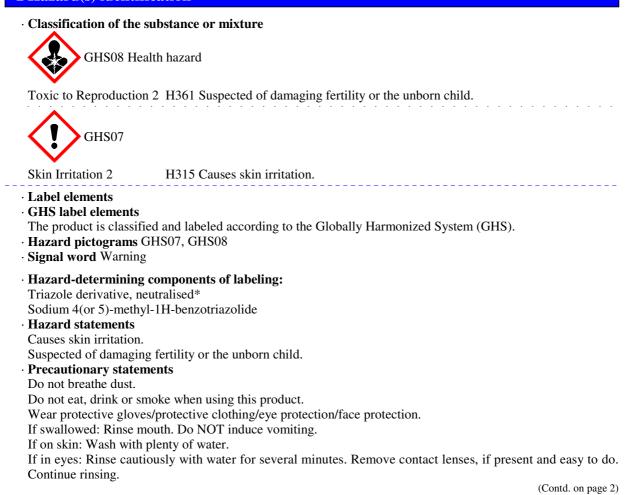
Any use carrying a risk of direct contact with eyes/skin where workers are exposed without adequate personal protective equipment (PPE).

The product is intended exclusively for industrial and professional use.

- · Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:
- Information department: Product safety department.
- · Emergency telephone number:

CHEMTREC: 800-424-9300 (Domestic North America) OR 703-527-3887 (International, collect calls accepted).

2 Hazard(s) identification



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•	Classificati	ion system:	
•	NFPA rati	ngs (scale 0 - 4)	

Health = 1

Fire = 1Reactivity = 0

· HMIS-ratings (scale 0 - 4)

HEALTH 1	Health $= 1$
FIRE 1	Fire $= 1$
REACTIVITY 0	Reactivity $= 0$

· 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:		
7601-54-9	Trisodium orthophosphate	2.5-<10%
	Triazole derivative, neutralised*	2.5-<10%
64665-57-2	Sodium 4(or 5)-methyl-1H-benzotriazolide	0.1-<1%
• Additional information: *Equilibrium of Ionic pairs.		

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
- \cdot 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.

- \cdot For safety reasons unsuitable extinguishing agents: Water with full jet
- \cdot Special hazards arising from the substance or mixture

During heating or in case of fire poisonous gases are produced.

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· 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.	
Concer containinated me righting water separatery. 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.	
· 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. • Protective Action Criteria for Chemicals	
• Protective Action Criteria for Chemicais • PAC-1:	
64665-57-2 Sodium 4(or 5)-methyl-1H-benzotriazolide	1.9 mg/m ³
	1.9 mg/m ³
· PAC-2:	
64665-57-2 Sodium 4(or 5)-methyl-1H-benzotriazolide	21 mg/m ³
· PAC-3:	
64665-57-2 Sodium 4(or 5)-methyl-1H-benzotriazolide	130 mg/m ³
	I

7 Handling and storage

· Handling:

· 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.

Safety showers and eye wash facilities should be available at the work area. Ensure good ventilation/exhaustion at the workplace. Prevent formation of dust.

- · 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. Store away from foodstuffs.
- Further information about storage conditions: Store in cool, dry conditions in well sealed receptacles.
- Storage class: 11
- Specific end use(s) No further relevant information available.

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Exposure controls/personal protection	
Additional information about design of technical systems: No further data; see section 7.	
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 n	recommended
exposure limit.	
At this time, the other constituents have no known exposure limits.	
7601-54-9 Trisodium orthophosphate	
WEEL Short-term value: 5 mg/m ³	
Additional information: The lists that were valid during the creation were used as basis.	
Exposure controls	
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.	
Take note of assigned Workplace Exposure Limits.	
Breathing equipment: Use suitable respiratory protective device in case of insufficient ventilation	on.
Protection of hands:	
\mathcal{N} Protective gloves conforming to EN374.	
The glove material has to be impermeable and resistant to the product/ the substance/ the preparat	tion
Selection of the glove material on consideration of the penetration times, rates of diffusion and the	
Material of gloves	e degradation
The selection of the suitable gloves does not only depend on the material, but also on further ma	urks of qualit
and varies from manufacturer to manufacturer. As the product is a preparation of several su	
resistance of the glove material can not be calculated in advance and has therefore to be checke	
application.	a prior to th
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 b
observed.	
Eye protection:	

· 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).

Goggles recommended during refilling.

· Body protection:



Impervious protective clothing

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

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9 Physical and chemical proper	ties		
	· Information on basic physical and chemical properties		
· General Information			
· Appearance:	0.1'1		
Form: Color:	Solid Whitish		
· Odor:	Mild		
· Odor threshold:	Not determined.		
· pH-value at 20 °C (68 °F):	8–9 (1%)		
· Change in condition			
Melting point/Melting range:	Undetermined.		
Boiling point/Boiling range:	Undetermined.		
· Flash point:	>93 °C (>199.4 °F)		
· Flammability (solid, gaseous):	Not determined.		
· Auto igniting:	>250 °C (>482 °F)		
· Decomposition temperature:	Not determined.		
· Ignition temperature:	Product is not selfigniting.		
· Danger of explosion:	Product does not present an explosion hazard.		
· Explosion limits:			
Lower:	Not determined.		
Upper:	Not determined.		
· Vapor pressure:	Not applicable.		
· Density:	Not determined.		
· Relative density	Not determined.		
· Vapor density	Not applicable.		
 Evaporation rate 	Not applicable.		
· Solubility in / Miscibility with			
Water:	Soluble.		
· Partition coefficient (n-octanol/wat	er): Not determined.		
· Viscosity:			
Dynamic:	Not applicable.		
Kinematic:	Not applicable.		
· Solvent content:			
VOC content:	0.0 g/l / 0.00 lb/gl		
· Other information	NOTE: The physical data presented above are typical values and should not be construed as a specification.		

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 No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: Strong acids and oxidising agents

· Hazardous decomposition products:

Nitrogen oxides (NOx)

Carbon monoxide and carbon dioxide

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Sulfur oxides (SOx) Phosphorus compounds

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:

· LD/LC50 values that are relevant for classification:

ATE (Acute Toxicity Estimate)

Oral LD50 7,143 mg/kg

- · Primary irritant effect:
- \cdot on the skin: Irritant to skin and mucous membranes.
- on the eye: Irritating effect.
- · Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

Irritant

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.
- · Behavior in environmental systems:
- · Bioaccumulative potential Product is not expected to bioaccumulate.
- · Mobility in soil No further relevant information available.
- · Ecotoxical effects:
- · Remark: Harmful to fish
- · Additional ecological information:
- · General notes:

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

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.

- \cdot Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- \cdot Other adverse effects No further relevant information available.

13 Disposal considerations

- \cdot Waste treatment methods
- · Recommendation:
- Recommended Hierarchy of Controls:
- Minimize waste;
- Reuse if not contaminated;
- Recycle, if possible; or
- Safe disposal (if all else fails).

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Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Contact waste processors for recycling information.

Used, degraded or contaminated product may be classified as hazardous waste. Anyone classifying hazardous waste and determining its fate must be qualified in accordance with state and international legislation.

· Uncleaned packagings:

· Recommendation:

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

· UN-Number · DOT, ADR/RID/ADN, ADN, IMDG, IATA Void	
· UN proper shipping name · DOT, ADR/RID/ADN, ADN, IMDG, IA	TA Void
· Transport hazard class(es)	
· DOT, ADR/RID/ADN, ADN, IMDG, IA · Class	TA 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 MARPOL73/78 and the IBC Code	I of 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):	
7601-54-9 Trisodium orthophosphate	
· Section 313 (Specific toxic chemical listings):	
7601-54-9 Trisodium orthophosphate	
· TSCA (Toxic Substances Control Act):	
All components have the value 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.	
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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)	
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.	
• 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.	
Suspected of damaging fertility or the unborn child.	
Precautionary statements	
Do not breathe dust.	
Do not eat, drink or smoke when using this product.	
Wear protective gloves/protective clothing/eye protection/face protection.	
If swallowed: Rinse mouth. Do NOT induce vomiting.	
If on skin: Wash with plenty of water.	
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if pres	sent and easy to d
Continue rinsing. • Chemical safety assessment: A Chemical Safety Assessment has not been carried out.	

• 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.

· Contact:

· Date of preparation / last revision 06/07/2023 · 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 Skin Irritation 2: Skin corrosion/irritation - Category 2 Toxic to Reproduction 2: Reproductive toxicity - Category 2