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### **1 Identification**

- · Product identifier
- · Trade name:
- · Article number: 5324
- $\cdot$  Application of the substance / the mixture  $Water \ treatment$
- $\cdot$  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.

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

#### $\cdot$ Classification of the substance or mixture

GH

GHS08 Health hazard

Toxic to Reproduction 2 H361 Suspected of damaging fertility or the unborn child.

GHS07

Skin Irritation 2	H315 Causes skin irritation.
Eye Irritation 2A	H319 Causes serious eye irritation.

· 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
- Wash thoroughly after handling.

Wear protective gloves/protective clothing/eye protection/face protection.

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.

Specific treatment (see on this label).

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(Contd. of page 1) 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/regional/national/international regulations. · Classification system: · NFPA ratings (scale 0 - 4) Health = 2Fire = 1Reactivity = 0· HMIS-ratings (scale 0 - 4) HEALTH 2 Health = 2 <sup>1</sup> Fire = 1 FIRE **REACTIVITY** 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:

0		
	Triazole derivative, neutralised*	10-25%
64665-57-2	Sodium 4(or 5)-methyl-1H-benzotriazolide	1%
Additional informations *Equilibrium of Ionia noirs		

· 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
- · 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.

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	(Contd. of page
· 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.	
· Advice for firefighters	
· Protective equipment:	
Do not inhale explosion gases or combustion gases.	
Wear self-contained respiratory protective device.	
Wear fully protective suit.	
6 Accidental release measures	
$\cdot$ 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:	
Ensure adequate ventilation.	
Pick up mechanically.	
Send for recovery or disposal in suitable receptacles.	
· 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     PAC-1:	
	1.0
64665-57-2 Sodium 4(or 5)-methyl-1H-benzotriazolide	1.9 mg/m <sup>2</sup>
· PAC-2:	
64665-57-2 Sodium 4(or 5)-methyl-1H-benzotriazolide	21 mg/m <sup>2</sup>
· PAC-3:	
64665-57-2 Sodium 4(or 5)-methyl-1H-benzotriazolide	130 mg/m <sup>2</sup>

## 7 Handling and storage

· Handling:

· Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

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

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 $\cdot$  **Specific end use(s)** No further relevant information available.

(Contd. of page 3)

# 8 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 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 · 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. · 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 conforming to EN374. 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).

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 properties		
<ul> <li>Information on basic physical and chemical properties</li> <li>General Information</li> </ul>		
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.	
<b>Boiling point/Boiling range:</b>	Undetermined.	
· Flash point:	Not applicable.	
· Flammability (solid, gaseous):	Not determined.	
· 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.
- $\cdot$  Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- **Incompatible materials:** Strong oxidising agents.
- Strong acids.
- Hazardous decomposition products: Carbon monoxide and carbon dioxide

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<sup>-</sup>US -

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# Safety Data Sheet acc. to OSHA HCS

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Nitrogen oxides (NOx)

### **11 Toxicological information**

- · Information on toxicological effects
- · Acute toxicity:

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

#### **ATE (Acute Toxicity Estimate)**

Oral LD50 2,632 mg/kg

- Primary irritant effect:
- $\cdot$  on the skin: Irritant to skin and mucous membranes.
- on the eye: Irritating effect.

### $\cdot$ Additional toxicological information:

ROUTES OF EXPOSURE: Can be absorbed into the body by inhalation and by ingestion. The product shows the following dangers according to internally approved calculation methods for

preparations: Irritant

# · 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
- $\cdot$  Additional ecological information:
- · General notes:

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

Harmful to aquatic organisms

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.

- · 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, IA	<b>FA</b> Void
· UN proper shipping name · DOT, ADR/RID/ADN, ADN, IMDG, IA	<b>FA</b> Void
· Transport hazard class(es)	
· DOT, ADR/RID/ADN, ADN, IMDG, IA · Class	TA Void
<ul> <li>Packing group</li> <li>DOT, ADR/RID/ADN, IMDG, IATA</li> </ul>	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 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.	
<ul> <li>• GHS label elements         The product is classified and labeled according to the Globally Harmonia         • Hazard pictograms GHS07, GHS08         • Signal word Warning     </li> </ul>	zed System (GHS).
· 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	
Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection	n
If in eyes: Rinse cautiously with water for several minutes. Remove con	
Continue rinsing.	
IF exposed or concerned: Get medical advice/attention.	
Specific treatment (see on this label).	
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/regional/national/	
· Chemical safety assessment: A Chemical Safety Assessment has not be	en carried out.
6 Other information	
This information is based on our present knowledge. However, this sh	
specific product features and shall not establish a legally valid contractua	al relationship.
· Contact:	
Date of preparation / last revision 06/06/2023	
• Abbreviations and acronyms:	route (European Agreement Concerning)
ADR: Accord relatif au transport international des marchandises dangereuses par International Carriage of Dangerous Goods by Road)	Toute (European Agreement Concerning (
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

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OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit Skin Irritation 2: Skin corrosion/irritation – Category 2 Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A Toxic to Reproduction 2: Reproductive toxicity – Category 2