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# **1 Identification**

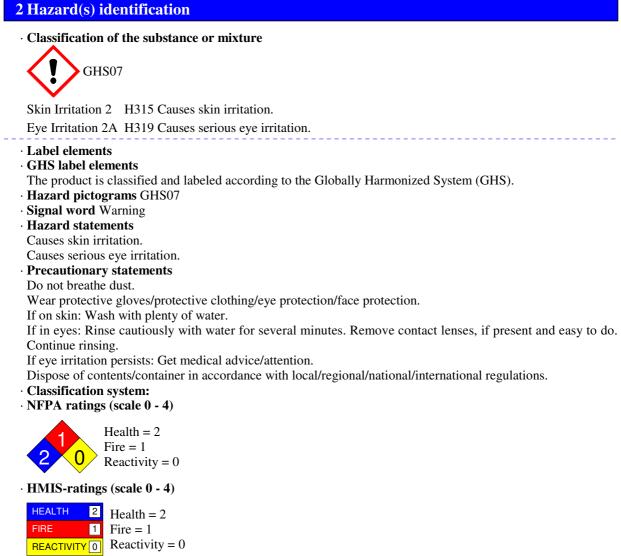
- · Product identifier
- · Trade name:
- · Article number: 4043
- · Application of the substance / the mixture Water treatment
- · Uses advised against
- Processes involving extreme heat use advised against.

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).



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#### Trade name:

- · Other hazards
- $\cdot$  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:

148-18-5	sodium diethyldithiocarbamate	50-100%
532-32-1	Benzoic acid, sodium salt	25-50%

### **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 wash with water and soap and rinse thoroughly.

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.
- $\cdot$  Indication of any immediate medical attention and special treatment needed

No further relevant information available.

### **5** Fire-fighting measures

 $\cdot$  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
- Combustible

Formation of toxic gases is possible during heating or in case of fire.

- $\cdot$  Advice for firefighters
- Protective equipment:

Wear self-contained respiratory protective device.

Do not inhale explosion gases or combustion gases.

- Wear fully protective suit.
- $\cdot$  Additional information

Cool endangered receptacles with water spray.

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

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6 Accidental release measures			
· Personal precautions, protective equipment and emergency procedures			
Avoid formation of dust.			
Ensure adequate ventilation			
· Environmental precautions:			
Do not allow to penetrate the ground/soil.			
Do not allow product to reach sewage system or any water course.			
Inform respective authorities in case of seepage into water course or sewage system.			
· Methods and material for containment and cleaning up:			
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:			
148-18-5 sodium diethyldithiocarbamate	6 mg/m <sup>3</sup>		
532-32-1 Benzoic acid, sodium salt	61 mg/m <sup>3</sup>		
· PAC-2:			
148-18-5 sodium diethyldithiocarbamate	27 mg/m <sup>3</sup>		
532-32-1 Benzoic acid, sodium salt	680 mg/m <sup>3</sup>		
• PAC-3:			
148-18-5 sodium diethyldithiocarbamate	300 mg/m <sup>3</sup>		
532-32-1 Benzoic acid, sodium salt	810 mg/m <sup>3</sup>		

# 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.

Ensure good ventilation/exhaustion at the workplace.

- · Information about protection against explosions and fires: No special measures required.
- · 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.
- Further information about storage conditions: Store in cool, dry conditions in well sealed receptacles.
- Specific end use(s) No further relevant information available.

### 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 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.

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#### Trade name:

• 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:
- The usual precautionary measures for handling chemicals should be followed.
- 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.
- 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 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.

<ul> <li>Information on basic physical and chemical properties</li> <li>General Information</li> </ul>					
· Appearance:					
Form:	Solid				
Color:	Whitish				
· Odor:	Amine-like				
· Odor threshold:	Not determined.				
· pH-value at 20 °C (68 °F):	9 (1%)				
· Change in condition					
Melting point/Melting range:	Undetermined.				

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Trade name:

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<b>Boiling point/Boiling range:</b>	Undetermined.
· Flash point:	>93 °C (>199.4 °F)
· 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: Upper:	Not determined. Not determined.
· Vapor pressure:	Not applicable.
<ul> <li>Density:</li> <li>Relative density</li> <li>Vapor density</li> <li>Evaporation rate</li> </ul>	Not determined. Not determined. Not applicable. Not applicable.
<ul> <li>Solubility in / Miscibility with Water:</li> </ul>	Soluble.
· Partition coefficient (n-octanol/water	): Not determined.
· Viscosity: Dynamic: Kinematic:	Not applicable. Not applicable.
• Solvent content: VOC content:	0.00 % 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.
- · 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

Nitrogen oxides (NOx)

Sulfur oxides (SOx)

Metal oxide

# **11** Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- · Primary irritant effect:
- on the skin: Irritant to skin and mucous membranes.

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#### Trade name:

• on the eye: Irritating effect.

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

 $\cdot$  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

 $\cdot$  IARC (International Agency for Research on Cancer)

148-18-5 sodium diethyldithiocarbamate

· 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.
- $\cdot$  Mobility in soil No further relevant information available.
- · Ecotoxical effects:
- · Remark: Very toxic for fish
- · Additional ecological information:
- · General notes:
- 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. Very toxic for aquatic organisms

#### · Results of PBT and vPvB assessment

- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- Other adverse effects No further relevant information available.

# **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.

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 flammable and/or hazardous vapours upon heating. Do not cut, drill, grind, weld, or perform similar operations on or near empty containers.

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#### Trade name:

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

14 Transport information				
· UN-Number · DOT, ADR/RID/ADN, ADN, IMDG, IATA Void				
<ul> <li>UN proper shipping name</li> <li>DOT, ADR/RID/ADN, ADN, IMDG, IATA Void</li> </ul>				
· 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 I 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
- · Sara
- $\cdot$  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

 $\cdot$  Chemicals known to cause cancer:

None of the ingredients is listed.

 $\cdot$  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)

None of the ingredients is listed.

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# · 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.

#### · GHS label elements

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

- · Hazard pictograms GHS07
- · Signal word Warning
- **Hazard statements** Causes skin irritation. Causes serious eye irritation.
- · Precautionary statements
- Do not breathe dust.

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 eye irritation persists: Get medical advice/attention.

- Dispose of contents/container in accordance with local/regional/national/international regulations.
- · 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 06/21/2023 · 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) 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 Eye Irritation 2A: Serious eye damage/eye irritation - Category 2A