Printing date 07/26/2016

Reviewed on 07/26/2016

1 Identification

- · Product identifier
- · Trade name:
- Article number: 4043
- \cdot Application of the substance / the mixture $Water \ treatment$
- · Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

· Information department: Product safety department.

· Emergency telephone number:

2 Hazard(s) identification

 \cdot Classification of the substance or mixture



Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 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
- · 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.

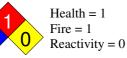
Avoid release to the environment.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

IF ON SKIN: Wash with plenty of water.

Dispose of contents/container in accordance with local/regional/national/international regulations.

- · Classification system:
- · NFPA ratings (scale 0 4)



· HMIS-ratings (scale 0 - 4)



· Other hazards

- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.

(Contd. on page 2)

US

Printing date 07/26/2016

Reviewed on 07/26/2016

Trade name:

· **vPvB:** Not applicable.

(Contd. of page 1)

3 Composition/information on ingredients

· Chemical characterization: Mixtures

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

· Dangerous components:

148-18-5	sodium diethyldithiocarbamate	50-100%
532-32-1	Sodium benzoate	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 rinse with water.
- If skin irritation continues, consult a doctor.
- · After eye contact:
- DO NOT DELAY!

Check for and remove any contact lenses.

Rinse opened eye for several minutes under running water. Then consult a doctor.

· After swallowing:

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; immediately call for medical help.

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. • Special hazards arising from the substance or mixture

Combustible

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

Avoid formation of dust.

Ensure adequate ventilation

Wear protective equipment. Keep unprotected persons away.

- \cdot Environmental precautions: Do not allow to penetrate the ground/soil.
- \cdot Methods and material for containment and cleaning up:
- Pick up mechanically.

(Contd. on page 3)

⁻ US

Printing date 07/26/2016

Trade name:

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.

7 Handling and storage

· Handling:

- · Precautions for safe handling
- Prevent formation of dust.

Ensure good ventilation/exhaustion at the workplace.

- Information about protection against explosions and fires: Keep respiratory protective device available.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- \cdot 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:
- Keep receptacle tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

Protect from heat and direct sunlight.

None.

• 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 item 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.

- · Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures:
- Do not breath 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.

(Contd. on page 4)

Reviewed on 07/26/2016

(Contd. of page 2)

Printing date 07/26/2016

Reviewed on 07/26/2016

(Contd. of page 3)

Trade name:

· Protection of hands:



Protective gloves

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:



Tightly sealed goggles

· Body protection:

Impervious protective clothing

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

Physical and chemical propert	ies	
· Information on basic physical and ch	nemical properties	
General Information		
· Appearance:		
Form:	Solid	
Color: Odor:	Whitish Mild	
• Odor: • Odor threshold:	Nila Not determined.	
· Odor threshold:		
• pH-value (10 g/l) at 20 °C (68 °F):	9	
Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	Undetermined.	
· Flash point:	>93 °C (>199 °F)	
· Flammability (solid, gaseous):	Not determined.	
· Ignition temperature:		
Decomposition temperature:	Not determined.	
· Auto igniting:	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.	
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Printing date 07/26/2016

Trade name:

		(Contd. of page 4)
· Evaporation rate	Not applicable.	
 Solubility in / Miscibility with Water: 	Soluble.	
· Partition coefficient (n-octanol/wate	r): Not determined.	
· Viscosity:		
Dynamic:	Not applicable.	
Kinematic:	Not applicable.	
· Solvent content:		
VOC content:	0.0 g/l / 0.00 lb/gl	
· Other information	No further relevant information available.	

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.
- \cdot 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)

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- · Primary irritant effect:
- \cdot on the skin: Caustic effect on skin and mucous membranes.
- on the eye:
- Strong caustic effect.
- Strong irritant with the danger of severe eye injury.
- \cdot Additional toxicological information:

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

- Harmful
- Corrosive
- Irritant

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

ROUTES OF EXPOSURE: The component substances can variously 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.

\cdot NTP (National Toxicology Program)

None of the ingredients is listed.

(Contd. on page 6)

US

Printing date 07/26/2016

Trade name:

Reviewed on 07/26/2016

(Contd. of page 5)

\cdot 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 No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential Product is not expected to bioaccumulate.
- \cdot Mobility in soil No further relevant information available.
- · 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. Must not reach bodies of water or drainage ditch undiluted or unneutralized.

- · 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:
- Minimise waste;
- Reuse if not contaminated;
- Recycle, if possible; or
- Safe disposal (if all else fails).
- Contact waste processors for recycling information.

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. 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:

Container remains hazardous when empty. Continue to observe all precuations.

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.

 \cdot Recommended cleansing agent: Water, if necessary with cleansing agents.

· UN-Number · DOT, ADR, ADN, IMDG, IATA	Void	
· UN proper shipping name · DOT, ADR, ADN, IMDG, IATA	Void	
· Transport hazard class(es)		
· DOT, ADR, ADN, IMDG, IATA		
· Class	Void	

Printing date 07/26/2016

Reviewed on 07/26/2016

Trade name:

	(Contd. of page 6)
 Packing group DOT, ADR, IMDG, IATA 	Void
· Environmental hazards:	Not applicable.
 Special precautions for user Stowage Category 	Not applicable. B
• 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

\cdot Safety, health and environmental regulations/legislation specific for the substance or mice Sara	ixture
Section 355 (extremely hazardous substances):	
108-91-8 Cyclohexylamine	
Section 313 (Specific toxic chemical listings):	
None of the ingredients is listed.	
• TSCA (Toxic Substances Control Act):	
All ingredients are 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.	
· Cancerogenity categories	
· EPA (Environmental Protection Agency)	
None of the ingredients is listed.	
· TLV (Threshold Limit Value established by ACGIH)	
108-91-8 Cyclohexylamine	1
• NIOSH-Ca (National Institute for Occupational Safety and Health)	I
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.	
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Printing date 07/26/2016

Reviewed on 07/26/2016

Trade name:

(Contd. of page 7)

Avoid release to the environment.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

IF ON SKIN: Wash with plenty of water.

- 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.

· Date of preparation / last revision 07/26/2016 / -

· Abbreviations and acronyms:

ADR: Accord européen sur le transport 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 ACGIH: American Conference of Governmental Industrial Hygienists 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 Irrit. 2: Skin corrosion/irritation - Category 2 Eye Irrit. 2A: Serious eye damage/eye irritation - Category 2A