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1 Identification

- · Product identifier
- · Trade name: <u>B-DHA-C</u>
- Article number: 2231
- · 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).

Any use involving aerosol formation or vapour release in excess of the assigned WEL where workers are exposed without suitable RPE.

The product is intended exclusively for industrial and professional use.

- \cdot 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



Eye Irritation 2AH319 Causes serious eye irritation.Specific Target Organ Toxicity - Single Exposure 3H335 May cause respiratory 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-determining components of labeling:
- N,N-diethylhydroxylamine
- · Hazard statements

Causes serious eye irritation.

May cause respiratory 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 INHALED: Remove person to fresh air and keep comfortable for breathing.

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.

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

 $\begin{array}{c} 1 \\ 2 \\ 0 \\ \end{array}$ Health = 2 Fire = 1 Reactivity = 0

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· HMIS-ratings (scale 0 - 4)

-	
HEALTH 2	Health $= 2$
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
- \cdot **Description:** Mixture of the substances listed below with nonhazardous additions.

· Dangerous components:

532-32-1 Benzoic acid, sodium salt

3710-84-7 N,N-diethylhydroxylamine

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
- \cdot Special hazards arising from the substance or mixture
- During heating or in case of fire poisonous gases are produced.

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.

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50-100%

25-50%

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• Additional information Cool endangered receptacles with water spray.	(Contd. of page 2)
6 Accidental release measures	
 Personal precautions, protective equipment and emergency procedures Avoid formation of dust. Ensure adequate ventilation Wear protective equipment. Keep unprotected persons away. Keep ignition sources away - no smoking. 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 13 for disposal information. Protective Action Criteria for Chemicals 	
• PAC-1: 532-32-1 Benzoic acid, sodium salt	61 mg/m ³
• PAC-2: 532-32-1 Benzoic acid, sodium salt	680 mg/m ³
• PAC-3: 532-32-1 Benzoic acid, sodium salt	810 mg/m ³

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.

Prevent formation of dust.

Ensure good ventilation/exhaustion at the workplace.

· Information about protection against explosions and fires: Keep respiratory protective device available.

\cdot 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.
- \cdot Further information about storage conditions:
- Store in cool, dry conditions in well sealed receptacles.
- Protect from heat and direct sunlight.
- Storage class: 11
- 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.

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· Control parameters

components with mine (more charter inclusion ing to the workhow)
532-32-1 Benzoic acid, sodium salt
TLV Long-term value: 2.5 mg/m ³
inh. fraction, Skin, A5
3710-84-7 N,N-diethylhydroxylamine
TLV Long-term value: 2 ppm
\cdot 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.

· Components with limit values that require monitoring at the workplace:

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 proper	rties
 Information on basic physical and c General Information 	chemical properties
· Appearance:	
Form:	Solid
Color:	Various colors Amine-like
· Odor: · Odor threshold:	Amine-like Not determined.
· pH-value at 20 °C (68 °F):	10 (4%)
· Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	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 at 20 °C (68 °F):	1.2 g/cm ³ (10.014 lbs/gal)
· 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.
· 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)

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Metal oxide

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11 Toxicological information

· Information on toxicological effects

· Acute toxicity:

· LD/LC50 values that are	e relevant for	classification:
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ATE (Acute T	oxicity Estimate)
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Dermal LD50 2,876 mg/kg Inhalative LC50/4 h 28.8 mg/l

532-32-1 Benzoic acid, sodium salt

Oral	LD50	>2,000 mg/kg (rat)

LD50 >2,000 mg/kg (rabbit)

Primary irritant effect:

- on the skin: No irritant effect.
- on the eye: Irritating effect.
- Sensitization: No sensitizing effects known.

· Additional toxicological information:

ROUTES OF EXPOSURE: The component substances can variously be absorbed into the body by inhalation, through the skin and by ingestion.

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

Harmful

Irritant

Dermal

· 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:

532-32-1 Benzoic acid, sodium salt

EC50 (96 h) >100 mg/l (Bacteria)

- **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.
- \cdot Additional ecological information:
- · General notes:

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

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.

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• 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).

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:

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

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.

UN-Number	
DOT, ADR, IMDG, IATA	UN3077
UN proper shipping name	
DOT	Environmentally hazardous substance, solid, n.o.s. (N,I diethylhydroxylamine)
ADR	UN3077 ENVIRONMENTALLY HAZARDOU
	SUBSTANCE, SOLID, N.O.S. (N,N-diethylhydroxylamin
IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANC
-	SOLID, N.O.S. (N,N-diethylhydroxylamine), MARIN
	POLLUTANT
ΙΑΤΑ	ENVIRONMENTALLY HAZARDOUS SUBSTANC
	SOLID, N.O.S. (N,N-diethylhydroxylamine)
•	
Transport hazard class(es) DOT, ADR, IMDG, IATA	9 Miscellaneous dangerous substances and articles
•	9 Miscellaneous dangerous substances and articles 9
DOT, ADR, IMDG, IATA	e
DOT, ADR, IMDG, IATA	e
DOT, ADR, IMDG, IATA	9 III
DOT, ADR, IMDG, IATA	9 III Yes (DOT)
DOT, ADR, IMDG, IATA	9 III Yes (DOT) Symbol (fish and tree)
DOT, ADR, IMDG, IATA	9 III Yes (DOT)

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Trade name: B-DHA-C

	(Contd. of page
· Special precautions for user	Warning: Miscellaneous dangerous substances and articles
· Hazard identification number (Kemler code):	90
· EMS Number:	F-A,S-F
· Stowage Category	A
Stowage Code	SW23 When transported in BK3 bulk container, see 7.6.2.1 and 7.7.3.9.
· Transport in bulk according to Annex II of	
MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	Amounts up to 5kg or 5L per single or inner package are no regulated according to ADR/RID SP 375, IMDG 2.10.2. and IATA SP A197.
DOT	
Remarks:	Special marking with the symbol (fish and tree).
ADR	
• Excepted quantities (EQ)	Code: E1
Excepted quantities (EQ)	Maximum net quantity per inner packaging: 30 g
	Maximum net quantity per outer packaging: 1000 g
IMDG	
Limited quantities (LQ)	5 kg
• Excepted quantities (EQ)	Code: E1
Excepted quantities (EQ)	Maximum net quantity per inner packaging: 30 g
	Maximum net quantity per outer packaging: 1000 g
UN "Model Regulation":	UN 3077 ENVIRONMENTALLY HAZARDOU
	SUBSTANCE, SOLID, N.O.S. (N,N DIETHYLHYDROXYLAMINE), 9, III

15 Regulatory information

 \cdot Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.

 \cdot 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.
· 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.
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US

	nental Protection Agency)
None of the ingr	edients is listed.
· TLV (Threshol	d Limit Value)
None of the ingr	edients is listed.
· NIOSH-Ca (Na	tional Institute for Occupational Safety and Health)
None of the ingr	edients is listed.
· GHS label elem	ents
The product is c	lassified and labeled according to the Globally Harmonized System (GHS).
· Hazard pictogr	ams GHS07
· Signal word \breve{W}_{a}	
· Hazard-determ	ining components of labeling:
N,N-diethylhydr	oxylamine
· Hazard stateme	ents
Causes serious e	ye irritation.
May cause respi	ratory irritation.
· Precautionary	statements
Do not breathe d	ust.
Wear protective	gloves/protective clothing/eye protection/face protection.
	with plenty of water.
IF INHALED: F	emove person to fresh air and keep comfortable for breathing.
	cautiously with water for several minutes. Remove contact lenses, if present and easy to c
Continue rinsing	
If eye irritation p	persists: Get medical advice/attention.
 Chemical safety 	v assessment: A Chemical Safety Assessment has not been carried out.
Other inforn	nation
This information	
This information specific product	n is based on our present knowledge. However, this shall not constitute a guarantee for a
This information specific product • Contact:	n is based on our present knowledge. However, this shall not constitute a guarantee for a features and shall not establish a legally valid contractual relationship.
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This informatio specific product • Contact: • Date of prepara • Abbreviations a ADR: Accord relat International Carriag IMDG: International DOT: US Departme IATA: International EINECS: European ELINCS: European CAS: Chemical Abs NFPA: National Fire HMIS: Hazardous M LC50: Lethal concer LD50: Lethal dose, s	n is based on our present knowledge. However, this shall not constitute a guarantee for a features and shall not establish a legally valid contractual relationship. Ation / last revision 05/22/2023 and acronyms: if au transport international des marchandises dangereuses par route (European Agreement Concerning e of Dangerous Goods by Road) Maritime Code for Dangerous Goods in of Transport Association Inventory of Existing Commercial Chemical Substances List of Notified Chemical Substances tracts Service (division of the American Chemical Society) Protection Association (USA) laterials Identification System (USA) intration, 50 percent
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This informatio specific product • Contact: • Date of prepara • Abbreviations a ADR: Accord relat International Carriag IMDG: International DOT: US Departme IATA: International EINECS: European CAS: Chemical Abs NFPA: National Fire HMIS: Hazardous M LC50: Lethal concer LD50: Lethal concer PBT: Persistent, Bio PVB: very Persister NIOSH: National In OSHA: Occupationa	n is based on our present knowledge. However, this shall not constitute a guarantee for a features and shall not establish a legally valid contractual relationship. Ation / last revision 05/22/2023 and acronyms: if au transport international des marchandises dangereuses par route (European Agreement Concerning to for Dangerous Goods by Road) Maritime Code for Dangerous Goods at of Transport Association Inventory of Existing Commercial Chemical Substances List of Notified Chemical Substances tracts Service (division of the American Chemical Society) Protection Association (USA) laterials Identification System (USA) tration, 50 percent accumulative and Toxic t and very Bioaccumulative stitute for Occupational Safety l Safety & Health
This informatio specific product • Contact: • Date of prepara • Abbreviations a ADR: Accord relat International Cariaag IMDG: International DOT: US Departme IATA: International EINECS: European ELINCS: European CAS: Chemical Abs NFPA: National Fire HMIS: Hazardous M LC50: Lethal concer LD50: Lethal concer LD50: Lethal dose, 3 PBT: Persistent, Bio vPvB: very Persister NIOSH: National In OSHA: Occupationa TLV: Threshold Lin	n is based on our present knowledge. However, this shall not constitute a guarantee for a features and shall not establish a legally valid contractual relationship. Ation / last revision 05/22/2023 and acronyms: if au transport international des marchandises dangereuses par route (European Agreement Concerning e of Dangerous Goods by Road) Maritime Code for Dangerous Goods at of Transport Association Inventory of Existing Commercial Chemical Substances List of Notified Chemical Substances List of Notified Chemical Substances List of Notified Chemical Substances tracts Service (division of the American Chemical Society) Protection Association (USA) laterials Identification System (USA) tration, 50 percent 30 percent 30 percent 30 percent 31 and very Bioaccumulative stitute for Occupational Safety a I Safety & Health tit Value
This informatio specific product • Contact: • Date of prepara • Abbreviations a ADR: Accord relat International Carriag IMDG: International DOT: US Departme IATA: International EINECS: European CAS: Chemical Abs NFPA: National Fire HMIS: Hazardous M LC50: Lethal concer LD50: Lethal concer PBT: Persistent, Bio PVB: very Persister NIOSH: National In OSHA: Occupationa	n is based on our present knowledge. However, this shall not constitute a guarantee for a features and shall not establish a legally valid contractual relationship. Ation / last revision 05/22/2023 and acronyms: if au transport international des marchandises dangereuses par route (European Agreement Concerning te of Dangerous Goods by Road) Maritime Code for Dangerous Goods at of Transport Association Inventory of Existing Commercial Chemical Substances List of Notified Chemical Substances tracts Service (division of the American Chemical Society) Protection Association (USA) laterials Identification System (USA) Itatrials Identification System (USA) tration, 50 percent 50 percent accumulative and Toxic tt and very Bioaccumulative stitute for Occupational Safety al Safety & Health if Value posure Limit

Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3