Printing date 05/22/2023

Reviewed on 05/22/2023

## **1 Identification**

- · Product identifier
- · Trade name: <u>B-ACD-C</u>
- Article number: 2925
- · Application of the substance / the mixture Water treatment
- · Uses advised against
- Processes involving extreme heat use advised against.

Processes where workers who may be pregnant or breastfeeding could potentially come into direct contact with the undiluted product.

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.

- · 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

· Classification of the substance or mixture

GHS08 Health hazard

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

H318 Causes serious eye damage.

GHS05 Corrosion

Skin Corrosion 1B H314 Causes severe skin burns and eye damage.

Eye Damage 1

GHS07

Acute Toxicity - Oral 4 H302 Harmful if swallowed.

- · Label elements
- · GHS label elements
- The product is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms GHS05, GHS07, GHS08
- · Signal word Danger
- Hazard-determining components of labeling:
   2-diethylaminoethanol
   Cyclohexylamine
   Hazard statements
- Harmful if swallowed. Causes severe skin burns and eye damage.
- Suspected of damaging fertility or the unborn child.

Printing date 05/22/2023

Reviewed on 05/22/2023

#### Trade name: B-ACD-C

(Contd. of page 1)
· Precautionary statements
Do not handle until all safety precautions have been read and understood.
Do not breathe dust/fume/gas/mist/vapors/spray.
Do not eat, drink or smoke when using this product.
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.
· Classification system:
· NFPA ratings (scale 0 - 4)
Health $= 3$
Fire = 1
$\frac{3}{10} \frac{1}{\text{Reactivity}} = 0$
V Reactivity = 0
· HMIS-ratings (scale 0 - 4)
<b>HEALTH</b> $3$ Health = 3
FIRE 1 Fire = 1
<b>REACTIVITY</b> $0$ Reactivity = 0
· Other hazards
· Results of PBT and vPvB assessment
• <b>PBT:</b> Not applicable.
• <b>vPvB:</b> Not applicable.
3 Composition/information on ingredients

#### **3** Composition/information on ingredients

#### · Chemical characterization: Mixtures

• Description: Mixture of the substances listed below with nonhazardous additions.

· Dangerous components:		
532-32-1	Benzoic acid, sodium salt	50-100%
100-37-8	2-diethylaminoethanol	10-25%
108-91-8	Cyclohexylamine	10-25%

## **4 First-aid measures**

#### · Description of first aid measures

## · General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- 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. Then 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.

(Contd. on page 3)

- US

Printing date 05/22/2023

Trade name: B-ACD-C

Reviewed on 05/22/2023

(Contd. of page 2)

#### • 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
- Corrosive.

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.

### **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.	
· 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	
· PAC-1:	
532-32-1 Benzoic acid, sodium salt	61 mg/m <sup>3</sup>
100-37-8 2-diethylaminoethanol	6 ppm
108-91-8 Cyclohexylamine	1.8 ppm
· PAC-2:	
532-32-1 Benzoic acid, sodium salt	680 mg/m <sup>3</sup>
100-37-8 2-diethylaminoethanol	83 ppm
108-91-8 Cyclohexylamine	8.6 ppm
• PAC-3:	
532-32-1 Benzoic acid, sodium salt	810 mg/m <sup>3</sup>
100-37-8 2-diethylaminoethanol	500 ppm
108-91-8 Cyclohexylamine	30 ppm

(Contd. on page 4)

Printing date 05/22/2023

# Trade name: B-ACD-C

Reviewed on 05/22/2023

(Contd. of page 3)

IIall	dling and storage	
Hand	lling:	
Preca	autions for safe handling	
	d direct contact (skin/eye contact, ingestion and/or inhalation of fume/mist/dust) with the pr	roduct in t
	uted form.	
Safet	y showers and eye wash facilities should be available at the work area.	
	nt formation of dust.	
	e good ventilation/exhaustion at the workplace.	
	mation about protection against explosions and fires:	
	respiratory protective device available.	
	ignition sources away - Do not smoke.	
-		
	litions for safe storage, including any incompatibilities	
Stora		
	irements to be met by storerooms and receptacles:	
	nt any seepage into the ground.	
	ot store in aluminium, galvanised or copper containers.	
	mation about storage in one common storage facility: Store away from oxidizing agents.	
	ner information about storage conditions:	
	receptacle tightly sealed.	
	in cool, dry conditions in well sealed receptacles.	
None		
	ge class: 8 A	
Spec	fic end use(s) No further relevant information available.	
Addi	osure controls/personal protection tional information about design of technical systems: No further data; see section 7.	
Addi Cont	tional information about design of technical systems: No further data; see section 7. rol parameters	
Addi Cont Com	tional information about design of technical systems: No further data; see section 7. rol parameters ponents with limit values that require monitoring at the workplace:	
Addi Cont Com 532-3	tional information about design of technical systems: No further data; see section 7. rol parameters ponents with limit values that require monitoring at the workplace: 22-1 Benzoic acid, sodium salt	
Addi Cont Com 532-3	tional information about design of technical systems: No further data; see section 7. rol parameters ponents with limit values that require monitoring at the workplace: 22-1 Benzoic acid, sodium salt Long-term value: 2.5 mg/m <sup>3</sup>	
Addi Cont Com 532-3 TLV	tional information about design of technical systems: No further data; see section 7. rol parameters ponents with limit values that require monitoring at the workplace: 2-1 Benzoic acid, sodium salt Long-term value: 2.5 mg/m <sup>3</sup> inh. fraction, Skin, A5	
Addi Cont Com 532-3 TLV 100-3	tional information about design of technical systems: No further data; see section 7. rol parameters ponents with limit values that require monitoring at the workplace: 22-1 Benzoic acid, sodium salt Long-term value: 2.5 mg/m <sup>3</sup> inh. fraction, Skin, A5 7-8 2-diethylaminoethanol	
Addi Cont Com 532-3 TLV 100-3	tional information about design of technical systems: No further data; see section 7. rol parameters ponents with limit values that require monitoring at the workplace: 22-1 Benzoic acid, sodium salt Long-term value: 2.5 mg/m <sup>3</sup> inh. fraction, Skin, A5 7-8 2-diethylaminoethanol Long-term value: 50 mg/m <sup>3</sup> , 10 ppm	
Addi Cont Com 532-3 TLV 100-3	tional information about design of technical systems: No further data; see section 7. rol parameters ponents with limit values that require monitoring at the workplace: 22-1 Benzoic acid, sodium salt Long-term value: 2.5 mg/m <sup>3</sup> inh. fraction, Skin, A5 7-8 2-diethylaminoethanol	
Addi Cont Com 532-3 TLV 100-3 PEL	tional information about design of technical systems: No further data; see section 7. rol parameters ponents with limit values that require monitoring at the workplace: 2-1 Benzoic acid, sodium salt Long-term value: 2.5 mg/m <sup>3</sup> inh. fraction, Skin, A5 7-8 2-diethylaminoethanol Long-term value: 50 mg/m <sup>3</sup> , 10 ppm Skin	
Addi Cont Com 532-3 TLV 100-3 PEL	tional information about design of technical systems: No further data; see section 7. rol parameters ponents with limit values that require monitoring at the workplace: 22-1 Benzoic acid, sodium salt Long-term value: 2.5 mg/m <sup>3</sup> inh. fraction, Skin, A5 7-8 2-diethylaminoethanol Long-term value: 50 mg/m <sup>3</sup> , 10 ppm	
Addi Cont 532-3 TLV 100-3 PEL REL	tional information about design of technical systems: No further data; see section 7. rol parameters ponents with limit values that require monitoring at the workplace: 22-1 Benzoic acid, sodium salt Long-term value: 2.5 mg/m <sup>3</sup> inh. fraction, Skin, A5 7-8 2-diethylaminoethanol Long-term value: 50 mg/m <sup>3</sup> , 10 ppm Skin Long-term value: 50 mg/m <sup>3</sup> , 10 ppm Skin	
Addi Cont 532-3 TLV 100-3 PEL REL	tional information about design of technical systems: No further data; see section 7. rol parameters ponents with limit values that require monitoring at the workplace: 2-1 Benzoic acid, sodium salt Long-term value: 2.5 mg/m <sup>3</sup> inh. fraction, Skin, A5 7-8 2-diethylaminoethanol Long-term value: 50 mg/m <sup>3</sup> , 10 ppm Skin Long-term value: 50 mg/m <sup>3</sup> , 10 ppm Skin Long-term value: 2 ppm	
Addi Cont 532-3 TLV 100-3 PEL REL TLV	tional information about design of technical systems: No further data; see section 7. rol parameters ponents with limit values that require monitoring at the workplace: 2-1 Benzoic acid, sodium salt Long-term value: 2.5 mg/m <sup>3</sup> inh. fraction, Skin, A5 7-8 2-diethylaminoethanol Long-term value: 50 mg/m <sup>3</sup> , 10 ppm Skin Long-term value: 50 mg/m <sup>3</sup> , 10 ppm Skin Long-term value: 2 ppm Skin	
Addi Cont 532-3 TLV 100-3 PEL REL TLV	tional information about design of technical systems: No further data; see section 7. rol parameters ponents with limit values that require monitoring at the workplace: 2-1 Benzoic acid, sodium salt Long-term value: 2.5 mg/m <sup>3</sup> inh. fraction, Skin, A5 7-8 2-diethylaminoethanol Long-term value: 50 mg/m <sup>3</sup> , 10 ppm Skin Long-term value: 50 mg/m <sup>3</sup> , 10 ppm Skin Long-term value: 2 ppm Skin	
Addi Cont 532-3 TLV 100-3 PEL REL TLV 108-9 REL	tional information about design of technical systems: No further data; see section 7. rol parameters ponents with limit values that require monitoring at the workplace: 2-1 Benzoic acid, sodium salt Long-term value: 2.5 mg/m <sup>3</sup> inh. fraction, Skin, A5 7-8 2-diethylaminoethanol Long-term value: 50 mg/m <sup>3</sup> , 10 ppm Skin Long-term value: 50 mg/m <sup>3</sup> , 10 ppm Skin Long-term value: 2 ppm Skin Long-term value: 2 ppm Skin Long-term value: 40 mg/m <sup>3</sup> , 10 ppm	
Addi Cont 532-3 TLV 100-3 PEL REL TLV 108-9 REL	tional information about design of technical systems: No further data; see section 7. rol parameters ponents with limit values that require monitoring at the workplace: 2-1 Benzoic acid, sodium salt Long-term value: 2.5 mg/m <sup>3</sup> inh. fraction, Skin, A5 7-8 2-diethylaminoethanol Long-term value: 50 mg/m <sup>3</sup> , 10 ppm Skin Long-term value: 50 mg/m <sup>3</sup> , 10 ppm Skin Long-term value: 2 ppm Skin Long-term value: 2 ppm Skin 1-8 Cyclohexylamine Long-term value: 40 mg/m <sup>3</sup> , 10 ppm Long-term value: 40 mg/m <sup>3</sup> , 10 ppm	
Addi Cont 532-3 TLV 100-3 PEL REL TLV 108-9 REL	tional information about design of technical systems: No further data; see section 7. rol parameters ponents with limit values that require monitoring at the workplace: 2-1 Benzoic acid, sodium salt Long-term value: 2.5 mg/m <sup>3</sup> inh. fraction, Skin, A5 7-8 2-diethylaminoethanol Long-term value: 50 mg/m <sup>3</sup> , 10 ppm Skin Long-term value: 50 mg/m <sup>3</sup> , 10 ppm Skin Long-term value: 2 ppm Skin Long-term value: 2 ppm Skin Long-term value: 40 mg/m <sup>3</sup> , 10 ppm	
Addi Cont 532-3 TLV 100-3 PEL REL TLV 108-9 REL TLV	tional information about design of technical systems: No further data; see section 7. rol parameters ponents with limit values that require monitoring at the workplace: 2-1 Benzoic acid, sodium salt Long-term value: 2.5 mg/m <sup>3</sup> inh. fraction, Skin, A5 7-8 2-diethylaminoethanol Long-term value: 50 mg/m <sup>3</sup> , 10 ppm Skin Long-term value: 50 mg/m <sup>3</sup> , 10 ppm Skin Long-term value: 2 ppm Skin Long-term value: 2 ppm Skin 1-8 Cyclohexylamine Long-term value: 40 mg/m <sup>3</sup> , 10 ppm Long-term value: 40 mg/m <sup>3</sup> , 10 ppm	
Addi Cont 532-3 TLV 100-3 PEL REL TLV 108-9 REL TLV Addi	tional information about design of technical systems: No further data; see section 7. rol parameters ponents with limit values that require monitoring at the workplace: 2-1 Benzoic acid, sodium salt Long-term value: 2.5 mg/m <sup>3</sup> inh. fraction, Skin, A5 7-8 2-diethylaminoethanol Long-term value: 50 mg/m <sup>3</sup> , 10 ppm Skin Long-term value: 50 mg/m <sup>3</sup> , 10 ppm Skin Long-term value: 2 ppm Skin D1-8 Cyclohexylamine Long-term value: 40 mg/m <sup>3</sup> , 10 ppm Long-term value: 40 mg/m <sup>3</sup> , 10 ppm A4 tional information: The lists that were valid during the creation were used as basis.	
Addi Cont 532-3 TLV 100-3 PEL REL TLV 108-9 REL TLV Addi Expo	tional information about design of technical systems: No further data; see section 7. rol parameters ponents with limit values that require monitoring at the workplace: 2-1 Benzoic acid, sodium salt Long-term value: 2.5 mg/m <sup>3</sup> inh. fraction, Skin, A5 7-8 2-diethylaminoethanol Long-term value: 50 mg/m <sup>3</sup> , 10 ppm Skin Long-term value: 50 mg/m <sup>3</sup> , 10 ppm Skin Long-term value: 2 ppm Skin 1-8 Cyclohexylamine Long-term value: 40 mg/m <sup>3</sup> , 10 ppm Long-term value: 10 ppm A4 tional information: The lists that were valid during the creation were used as basis. sure controls	
Addi Cont Com 532-3 TLV 100-3 PEL REL TLV 108-9 REL TLV Addi Expo Perso	tional information about design of technical systems: No further data; see section 7. rol parameters ponents with limit values that require monitoring at the workplace: 2-1 Benzoic acid, sodium salt Long-term value: 2.5 mg/m <sup>3</sup> inh. fraction, Skin, A5 7-8 2-diethylaminoethanol Long-term value: 50 mg/m <sup>3</sup> , 10 ppm Skin Long-term value: 50 mg/m <sup>3</sup> , 10 ppm Skin Long-term value: 2 ppm Skin PI-8 Cyclohexylamine Long-term value: 40 mg/m <sup>3</sup> , 10 ppm Long-term value: 10 ppm A4 tional information: The lists that were valid during the creation were used as basis. sure controls mal protective equipment:	
Addi Cont Com 532-3 TLV 100-3 PEL REL TLV 108-9 REL TLV Addi Expo Perso Selec	tional information about design of technical systems: No further data; see section 7. rol parameters ponents with limit values that require monitoring at the workplace: 2-1 Benzoic acid, sodium salt Long-term value: 2.5 mg/m <sup>3</sup> inh. fraction, Skin, A5 7-8 2-diethylaminoethanol Long-term value: 50 mg/m <sup>3</sup> , 10 ppm Skin Long-term value: 50 mg/m <sup>3</sup> , 10 ppm Skin Long-term value: 2 ppm Skin 1-8 Cyclohexylamine Long-term value: 40 mg/m <sup>3</sup> , 10 ppm Long-term value: 10 ppm A4 tional information: The lists that were valid during the creation were used as basis. sure controls mal protective equipment: t PPE appropriate for the operations taking place taking into account the product properties.	
Addi Cont Com 532-3 TLV 100-3 PEL REL TLV 108-9 REL TLV Addi Expo Perso Selec Gene	tional information about design of technical systems: No further data; see section 7. rol parameters ponents with limit values that require monitoring at the workplace: 2-1 Benzoic acid, sodium salt Long-term value: 2.5 mg/m <sup>3</sup> inh. fraction, Skin, A5 7-8 2-diethylaminoethanol Long-term value: 50 mg/m <sup>3</sup> , 10 ppm Skin Long-term value: 50 mg/m <sup>3</sup> , 10 ppm Skin Long-term value: 2 ppm Skin 1-8 Cyclohexylamine Long-term value: 40 mg/m <sup>3</sup> , 10 ppm Long-term value: 10 ppm A4 tional information: The lists that were valid during the creation were used as basis. sure controls mal protective equipment: t PPE appropriate for the operations taking place taking into account the product properties. ral protective and hygienic measures:	
Addi Cont Com 532-3 TLV 100-3 PEL REL TLV 108-9 REL TLV Addi Expo Perso Selec Gene Do no	tional information about design of technical systems: No further data; see section 7. rol parameters ponents with limit values that require monitoring at the workplace: 2-1 Benzoic acid, sodium salt Long-term value: 2.5 mg/m <sup>3</sup> inh. fraction, Skin, A5 7-8 2-diethylaminoethanol Long-term value: 50 mg/m <sup>3</sup> , 10 ppm Skin Long-term value: 50 mg/m <sup>3</sup> , 10 ppm Skin Long-term value: 2 ppm Skin 1-8 Cyclohexylamine Long-term value: 40 mg/m <sup>3</sup> , 10 ppm Ad tional information: The lists that were valid during the creation were used as basis. sure controls mal protective equipment: t PPE appropriate for the operations taking place taking into account the product properties. ral protective and hygienic measures: ot breathe dust	
Addi Cont Com 532-3 TLV 100-3 PEL REL TLV 108-9 REL TLV Addi Expo Selec Gene Do no Do no	tional information about design of technical systems: No further data; see section 7. rol parameters ponents with limit values that require monitoring at the workplace: 2-1 Benzoic acid, sodium salt Long-term value: 2.5 mg/m <sup>3</sup> inh. fraction, Skin, A5 7-8 2-diethylaminoethanol Long-term value: 50 mg/m <sup>3</sup> , 10 ppm Skin Long-term value: 50 mg/m <sup>3</sup> , 10 ppm Skin Long-term value: 2 ppm Skin 1-8 Cyclohexylamine Long-term value: 40 mg/m <sup>3</sup> , 10 ppm A4 tional information: The lists that were valid during the creation were used as basis. sure controls mal protective equipment: t PPE appropriate for the operations taking place taking into account the product properties. ral protective and hygienic measures: ot breath dust ot eat, drink, smoke or sniff while working.	
Addi Cont Com 532-3 TLV 100-3 PEL REL TLV 108-9 REL TLV Addi Expo Selec Gene Do no Cont Take	tional information about design of technical systems: No further data; see section 7. rol parameters ponents with limit values that require monitoring at the workplace: 2-1 Benzoic acid, sodium salt Long-term value: 2.5 mg/m <sup>3</sup> inh. fraction, Skin, A5 7-8 2-diethylaminoethanol Long-term value: 50 mg/m <sup>3</sup> , 10 ppm Skin Long-term value: 50 mg/m <sup>3</sup> , 10 ppm Skin Long-term value: 2 ppm Skin 1-8 Cyclohexylamine Long-term value: 40 mg/m <sup>3</sup> , 10 ppm Long-term value: 10 ppm A4 tional information: The lists that were valid during the creation were used as basis. sure controls mal protective equipment: t PPE appropriate for the operations taking place taking into account the product properties. ral protective and hygienic measures: at eat, drink, smoke or sniff while working. note of assigned Workplace Exposure Limits.	
Addi Cont Com 532-3 TLV 100-3 PEL REL TLV 108-5 REL TLV Addi Expo Perso Selec Gene Do no Cont Cont Cont Cont Cont Cont Cont Co	tional information about design of technical systems: No further data; see section 7. rol parameters ponents with limit values that require monitoring at the workplace: 2-1 Benzoic acid, sodium salt Long-term value: 2.5 mg/m <sup>3</sup> inh. fraction, Skin, A5 7-8 2-diethylaminoethanol Long-term value: 50 mg/m <sup>3</sup> , 10 ppm Skin Long-term value: 50 mg/m <sup>3</sup> , 10 ppm Skin Long-term value: 2 ppm Skin 1-8 Cyclohexylamine Long-term value: 40 mg/m <sup>3</sup> , 10 ppm Long-term value: 10 ppm A4 tional information: The lists that were valid during the creation were used as basis. sure controls mal protective equipment: t PPE appropriate for the operations taking place taking into account the product properties. ral protective and hygienic measures: ot breathe dust ot eat, drink, smoke or sniff while working. note of assigned Workplace Exposure Limits. away from foodstuffs, beverages and feed.	ontd. on page

(Contd. on page 5)

<sup>-</sup> US

Printing date 05/22/2023

#### Reviewed on 05/22/2023

#### Trade name: B-ACD-C

(Contd. of page 4)

Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Pregnant women should strictly avoid inhalation or skin contact.

A safe system of work must be formulated and followed to ensure that workers who may be pregnant or breastfeeding do not come into direct contact with the product.

#### · 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:



Tightly sealed goggles conforming to EN166.

#### · Body protection:



Impervious protective clothing

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

Information on basic physical and of General Information	chemical properties	
Appearance:		
Form:	Solid	
Color:	Whitish	
Odor:	Amine-like	
Odor threshold:	Not determined.	
pH-value at 20 °C (68 °F):	11 (4%)	
Change in condition		
Melting point/Melting range:	Undetermined.	
<b>Boiling point/Boiling range:</b>	Undetermined.	
Flash point:	>93 °C (>199.4 °F)	

Printing date 05/22/2023

Reviewed on 05/22/2023

Trade name: B-ACD-C

	(Contd. of page 5)
· 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 at 20 °C (68 °F):</li> <li>Relative density</li> <li>Vapor density</li> <li>Evaporation rate</li> </ul>	1.18 g/cm <sup>3</sup> (9.8471 lbs/gal) Not determined. Not applicable. Not applicable.
<ul> <li>Solubility in / Miscibility with Water:</li> <li>Partition coefficient (n-octanol/water)</li> </ul>	Soluble.
<ul> <li>Viscosity:</li> <li>Dynamic:</li> <li>Kinematic:</li> </ul>	Not applicable. 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) Metal oxide

# **11 Toxicological information**

- · Information on toxicological effects
- · Acute toxicity:

· LD/LC50	· LD/LC50 values that are relevant for classification:		
ATE (Acu	ite Toxicit	y Estimate)	
Oral	LD50	1,612 mg/kg	
Dermal	LD50	2,180 mg/kg	
Inhalative	LC50/4 h	20.4 mg/l (rat)	
532-32-1	Benzoic ac	id, sodium salt	
Oral	LD50	>2,000 mg/kg (rat)	
	•	(Contd. on page 7)	

US

Printing date 05/22/2023

Reviewed on 05/22/2023

#### Trade name: B-ACD-C

Dermal	LD50	>2,000 mg/kg (rabbit) (Contd. of page 6)
		ninoethanol
Oral	LD50	1,320 mg/kg (rat)
	LD50	885 mg/kg (Guinea pig)
		4.6 mg/l /Vapours (rat)
· Primary in		
		effect on skin and mucous membranes.
$\cdot$ on the eye		
Strong cau	stic effect.	
		e danger of severe eye injury.
		cical information:
preparation		the following dangers according to internally approved calculation methods for
Harmful	15.	
Corrosive		
Irritant		
		d to a strong caustic effect on mouth and throat and to the danger of perforation of
oesophagu		
		SURE: The component substances can variously be absorbed into the body by inhalation,
-		by ingestion.
· Carcinoge	-	
		l Agency for Research on Cancer)
None of th	e ingredier	ts is listed.
		cology Program)
None of th	e ingredier	ts is listed.
· OSHA-Ca	(Occupat	ional Safety & Health Administration)
None of th	e ingredier	nts is listed.
<u> </u>		
	1.0	
<b>12 Ecologic</b>	al inform	nation
· Toxicity		
· Aquatic to	oxicity:	
532-32-1 I	Benzoic ac	id, sodium salt
EC50 (96 )	h) >100 m	g/l (Bacteria)
100-37-8 2	2-diethylaı	ninoethanol
EC50 (96 1	h) 147 mg	/l (Fish)
EC50 (48 l	h) 165 mg	/l (Daphnia)
		radability The organic portion of the product is biodegradable.
· Behavior i	in environ	mental systems:

- · Bioaccumulative potential Product is not expected to bioaccumulate.
- Mobility in soil No further relevant information available.
- · 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. • Results of PBT and vPvB assessment

• **PBT:** Not applicable.

• **vPvB:** Not applicable.

• Other adverse effects No further relevant information available.

(Contd. on page 8)

Printing date 05/22/2023

#### Trade name: B-ACD-C

Reviewed on 05/22/2023

(Contd. of page 7)

## **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:

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	UN3263
UN proper shipping name DOT	Corrosive solid, basic, organic, n.o.s. (Cyclohexylamine, 2
ADR	Diethylaminoethanol) UN3263 CORROSIVE SOLID, BASIC, ORGANIC, N.O.S (CYCLOHEXYLAMINE, 2 DIETHYLAMINOETHANOL)
IMDG, IATA	CORROSIVE SOLID, BASIC, ORGANIC, N.O.S (CYCLOHEXYLAMINE, 2 DIETHYLAMINOETHANOL)
Transport hazard class(es)	
DOT	
CORROSVE 8	
Class	8 Corrosive substances
	8 Corrosive substances 8
Label	8
Class Label ADR, IMDG, IATA	8
Label	8
Label ADR, IMDG, IATA	8

Printing date 05/22/2023

Reviewed on 05/22/2023

Trade name: B-ACD-C

	(Contd. of page 8
· Environmental hazards:	Not applicable.
· Special precautions for user	Warning: Corrosive substances
· Hazard identification number (Kemler co	ode): 80
· EMS Number:	F-A,S-B
<ul> <li>Segregation groups</li> </ul>	(SGG18) Alkalis
· Stowage Category	В
· Segregation Code	SG35 Stow "separated from" SGG1-acids
· 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.
· ADR	
· Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 g
	Maximum net quantity per outer packaging: 500 g
·IMDG	
· Limited quantities (LQ)	1 kg
· Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 g
	Maximum net quantity per outer packaging: 500 g
· UN "Model Regulation":	UN 3263 CORROSIVE SOLID, BASIC, ORGANIC
8	N.O.S. (CYCLOHEXYLAMINE, 2-
	DIETHYLAMINOETHANOL), 8, II

# **15 Regulatory information**

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

· Sara

· 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 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.

 $\cdot$  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.

(Contd. on page 10)

US

Printing date 05/22/2023

Reviewed on 05/22/2023

Trade name: B-ACD-C

(Contd. of page 9)

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 GHS05, GHS07, GHS08         Signal word Danger         Hazard-determining components of labeling:         2-diethylaminoethanol         Cyclohexylamine         Hazard statements         Harmful if swallowed.         Causes severe skin burns and eye damage.         Suspected of damaging fertility or the unborn child.         Precautionary statements         Do not handle until all safety precautions have been read and understood.         Do not breathe dust/fume/gas/mist/vapors/spray.         Do not eat, drink or smoke when using this product.         Wear protective gloves/protective clothing/eye protection/face protection.         If on skin: Wash with plenty of water.	<b>EPA</b> (Environmental Prot	ection Agency)
108-91-8       Cyclohexylamine         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 GHS05, GHS07, GHS08         Signal word Danger         Hazard-determining components of labeling:         2-diethylaminoethanol         Cyclohexylamine         Hazard statements         Harmful if swallowed.         Causes severe skin burns and eye damage.         Suspected of damaging fertility or the unborn child.         Precautionary statements         Do not handle until all safety precautions have been read and understood.         Do not breathe dust/fume/gas/mist/vapors/spray.         Do not eat, drink or smoke when using this product.         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 Continue rinsing.	None of the ingredients is li	sted.
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 GHS05, GHS07, GHS08         Signal word Danger         Hazard-determining components of labeling:         2-diethylaminoethanol         Cyclohexylamine         Hazard statements         Harmful if swallowed.         Causes severe skin burns and eye damage.         Suspected of damaging fertility or the unborn child.         Precautionary statements         Do not handle until all safety precautions have been read and understood.         Do not breathe dust/fume/gas/mist/vapors/spray.         Do not eat, drink or smoke when using this product.         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 Continue rinsing.	TLV (Threshold Limit Va	lue)
None of the ingredients is listed. <b>GHS label elements</b> The product is classified and labeled according to the Globally Harmonized System (GHS). <b>Hazard pictograms</b> GHS05, GHS07, GHS08 <b>Signal word</b> Danger <b>Hazard-determining components of labeling:</b> 2-diethylaminoethanol Cyclohexylamine <b>Hazard statements</b> Harmful if swallowed. Causes severe skin burns and eye damage. Suspected of damaging fertility or the unborn child. <b>Precautionary statements</b> Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product. 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 Continue rinsing.	108-91-8 Cyclohexylamine	
GHS label elements         The product is classified and labeled according to the Globally Harmonized System (GHS).         Hazard pictograms GHS05, GHS07, GHS08         Signal word Danger         Hazard-determining components of labeling:         2-diethylaminoethanol         Cyclohexylamine         Hazard statements         Harmful if swallowed.         Causes severe skin burns and eye damage.         Suspected of damaging fertility or the unborn child.         Precautionary statements         Do not handle until all safety precautions have been read and understood.         Do not breathe dust/fume/gas/mist/vapors/spray.         Do not eat, drink or smoke when using this product.         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 Continue rinsing.	NIOSH-Ca (National Inst	itute for Occupational Safety and Health)
The product is classified and labeled according to the Globally Harmonized System (GHS). <b>Hazard pictograms</b> GHS05, GHS07, GHS08 <b>Signal word</b> Danger <b>Hazard-determining components of labeling:</b> 2-diethylaminoethanol Cyclohexylamine <b>Hazard statements</b> Harmful if swallowed. Causes severe skin burns and eye damage. Suspected of damaging fertility or the unborn child. <b>Precautionary statements</b> Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product. 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 Continue rinsing.	None of the ingredients is li	sted.
<ul> <li>2-diethylaminoethanol</li> <li>Cyclohexylamine</li> <li>Hazard statements</li> <li>Harmful if swallowed.</li> <li>Causes severe skin burns and eye damage.</li> <li>Suspected of damaging fertility or the unborn child.</li> <li>Precautionary statements</li> <li>Do not handle until all safety precautions have been read and understood.</li> <li>Do not breathe dust/fume/gas/mist/vapors/spray.</li> <li>Do not eat, drink or smoke when using this product.</li> <li>Wear protective gloves/protective clothing/eye protection/face protection.</li> <li>If on skin: Wash with plenty of water.</li> <li>If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to Continue rinsing.</li> </ul>	The product is classified an <b>Hazard pictograms</b> GHS0	
	2-diethylaminoethanol Cyclohexylamine <b>Hazard statements</b> Harmful if swallowed. Causes severe skin burns ar Suspected of damaging fert <b>Precautionary statements</b> Do not handle until all safet Do not breathe dust/fume/g Do not eat, drink or smoke Wear protective gloves/pro If on skin: Wash with plent If in eyes: Rinse cautiously Continue rinsing.	d eye damage. lity or the unborn child. y precautions have been read and understood. as/mist/vapors/spray. when using this product. ective clothing/eye protection/face protection. y of water. with water for several minutes. Remove contact lenses, if present and easy to
	Other information	
Other information		
specific product features and shall not establish a legally valid contractual relationship. Contact:		
This information is based on our present knowledge. However, this shall not constitute a guarantee for specific product features and shall not establish a legally valid contractual relationship. Contact: Date of preparation / last revision 05/22/2023		
This information is based on our present knowledge. However, this shall not constitute a guarantee for specific product features and shall not establish a legally valid contractual relationship. <b>Contact:</b>	International Carriage of Dangero	

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) 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 Acute Toxicity - Oral 4: Acute toxicity - Category 4 Skin Corrosion 1B: Skin corrosion/irritation - Category 1B Eye Damage 1: Serious eye damage/eye irritation – Category 1 Toxic to Reproduction 2: Reproductive toxicity – Category 2