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Droduct ide	ition of the substance/mixture and of the company/undertaking
Product ide	-
	e: <u>isononanoic acid</u>
Article num	
CAS Numb 3302-10-1	er:
<i>EC number</i>	
221-975-0	•
Registration	n number 01-2119517580-45
	entified uses of the substance or mixture and uses advised against
	relevant information available.
Application	of the substance / the mixture Chemical.
	he supplier of the safety data sheet
	rer/Supplier:
	mie GmbH & Co. KG
Bürgerkamp D-48565 St	
<i>D</i> -48505 St <i>Tel.</i> : 02551	
Fax: 02551	
Furthor inf	ormation obtainable from: Product safety department
	telephone number:
	trol Center Mainz - 24 hour emergency service - Tel.: +49 (0) 6131/19240
Hazards i	identification
	on of the substance or mixture
Eye Dam. 1	GHS05 corrosion H318 Causes serious eye damage. GHS07
Acute Tox.	4 H302 Harmful if swallowed.
	H315 Causes skin irritation.
Label elem	onts
	ccording to Regulation (EC) No 1272/2008
	ice is classified and labelled according to the CLP regulation.
Hazard pice	tograms
$\wedge$	$\wedge$
L.	
$\sim$	$\checkmark$
GHS05	GHS07
<i>.</i>	
Signal word	
Hazard stat	
	uful if swallowed. es skin irritation.
11212 (44)	es serious eye damage.
	ary statements
H318 Cause	
H318 Cause <b>Precaution</b>	P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lense
H318 Cause <b>Precaution</b> P305+P35	present and easy to do. Continue rinsing.
H318 Cause <b>Precaution</b>	

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P321	Specific treatment (see on this label).
P330	Rinse mouth.
P362+P364	Take off contaminated clothing and wash it before reuse.
P501	Dispose of contents/container in accordance with local/regional/national/international
	regulations.

#### • Other hazards

The product does not contain any substance above the legal limits included on the list for endocrine disrupting properties established under Article 59(1) of Regulation (EC) No 1907/2006 or under Commission Delegated Regulation (EU) 2017/2100 or of Commission Regulation (EU) 2018/605 has endocrine disrupting properties.

### · Results of PBT and vPvB assessment

· PBT:

The product does not contain any substances above legal limits that meet the criteria for PBT (persistent, bioaccumulative and toxic).

· vPvB:

The product does not contain any substances above legal limits that meet the criteria for vPvB (very persistent and very bioaccumulative).

### 3 Composition/information on ingredients

· Chemical characterisation: Substances

· CAS No. Description

3302-10-1 isononanoic acid

- · Identification number(s)
- EC number: 221-975-0
- Additional information: Hazardous ingredients (GHS) according to Regulation (EC) No. 1272/2008 3,5,5-trimethylhexanoic acid Content (W/W):  $\geq 95\% - \leq 99\%$  Acute Tox. 4 (orally) CAS number: 3302-10-1 Skin Corr./Irrit. 2 EC number: 221-975-0 Eye Dam./Irrit. 1 H318, H315, H302 isononanoic acid Content (W/W):  $\geq 1\% - \leq 5\%$  Acute Tox. 4 (orally) CAS Number: 26896-18-4 Eye Dam./Irrit. 1 EC number: 248-092-3 H318, H302 isononyl alcohol Content (W/W):  $\geq 0\% - \leq 0.1\%$  Skin Corr./Irrit. 2 CAS Number: 27458-94-2 Eye Dam./Irrit. 1 EC number: 248-471-3 H318, H302 3,5,5-trimethylhexanal Content (W/W):  $\geq 0\% - \leq 0.1\%$  Flam. Liquid 3 CAS Number: 5435-64-3 Skin Corr./Irrit. 2 EC number: 226-603-0 Skin Sens. 1, H226, H315, H317

### 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.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.

- Rinse out mouth and then drink plenty of water.
- If symptoms persist consult doctor.

• Information for doctor:

• Most important symptoms and effects, both acute and delayed No further relevant information available.

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<sup>•</sup> After swallowing:

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• *Indication of any immediate medical attention and special treatment needed No further relevant information available.* 

### **5** Firefighting measures

- · Extinguishing media
- Suitable extinguishing agents: CO2, powder or water spray. Fight larger fire with alcohol resistant foam.
- · For safety reasons unsuitable extinguishing agents: Water with full jet
- Special hazards arising from the substance or mixture In case of fire, the following can be released: Nitrogen oxides, carbon oxides
- Advice for firefighters

· Protective equipment: Wear self-contained respiratory protective device.

### 6 Accidental release measures

- *Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away. Avoid contact with eyes and skin Avoid inhalation.*
- *Environmental precautions:* Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up:
- Absorb with liquid-binding material (sand, diatomaceous earth, acid binder, universal binder, sawdust). Dispose contaminated material as waste according to item 13.
- **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

Avoid contact with skin, eyes and clothing.

Ensure good ventilation/exhaustion at the workplace.

- · Information about fire and explosion protection: Protect against electrostatic charges.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles:

Suitable materials for containers: high-density polyethylene (HDPE), low-density polyethylene (LDPE), glass, stove enamel RDL 50, stainless steel 1.4301 (V2), stainless steel 1.4541, stainless steel 1.4401 (V4), stainless steel 1.4571

Unsuitable materials for containers: galvanized carbon steel (zinc), paper/cardboard, carbon steel (iron), aluminium

- Information about storage in one common storage facility: Do not store together with alkalis (caustic solutions).
- Further information about storage conditions: Keep container tightly sealed.
- Store in a dry, cool and well-ventilated place.
- Storage class: 10
- Specific end use(s) No further relevant information available.

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Exposure controls/person	al protection
Additional information about d	esign of technical facilities: No further data; see item 7.
Control parameters	
DNELs	at require monitoring at the workplace: Not required.
worker: Long-term exposure - systemic e	effects, inhalation: 4.4 mg/m <sup>3</sup>
worker: Long-term exposure - systemic e	effects, dermal: 1.25 mg/kg
Consumer: Long term and short term expos	ure - local effects, inhalation: 5 mg/m <sup>3</sup>
Consumer: Long-term exposure - systemic e	
	sure - local effects, inhalation: 10 mg/m <sup>3</sup>
Consumer: Long-term exposure - systemic e	effects, inhalation: 1.1 mg/m <sup>3</sup>
Consumer: Long-term exposure - systemic e	effects, oral: 0.6 mg/m <sup>3</sup>
<b>PNECs</b> Fresh water: 0.068 mg/l	
Sea water: 0.0068 mg/l sporadic release: 1.36 mg/l	
Sediment (fresh water): $1.08$ mg	
Sediment (seawater): 0.108 mg// Soil: 0.176 mg/kg	kg
Sou: 0.170 mg/kg Sewage treatment plant: 23 mg/	1
, i i i i i i i i i i i i i i i i i i i	ts valid during the making were used as basis.
Exposure controls Personal protective equipment:	
General protective and hygienic	
Keep away from food, drink and	
Take off contaminated, soaked c Wash hands before breaks and c	
Avoid contact with eyes.	ii ine enu oj work.
Avoid contact with eyes and skir	1.
Do not eat, drink, smoke or sniff	f while working.
<b>Respiratory protection:</b> Suitable <b>Protection of hands:</b>	e respiratory protective device recommended.
т П	
Protective gloves	
	permeable and resistant to the product/ the substance/ the preparation.
	al on consideration of the penetration times, rates of diffusion and th
degradation Matarial of aloves	
<b>Material of gloves</b> Nitrile rubber, NBR	
PVC gloves	
Butyl rubber, BR	
Chloroprene rubber, CR	
and varies from manufacturer to	
	<b>rial</b> as to be found out by the manufacturer of the protective gloves and has to b
observed.	
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· Eye protection:



Tightly sealed goggles

· Body protection: Protective work clothing

Information on basic physical and chemical	nroperties
General Information	properties
Appearance:	
Form:	Fluid
Colour:	Colourless
Odour:	Mild
Odour threshold:	Not determined.
pH-value at 20 °C:	3.5 (0,2 %(m)
Change in condition	
Melting point/freezing point:	$<-60 \circ C$
Initial boiling point and boiling range:	230 - 240 °C (1.013 hPa)
Flash point:	137 °C (DIN 51758)
Flammability (solid, gas):	Not applicable.
Ignition temperature:	320 °C (Bibliografia)
Decomposition temperature:	Not determined.
Auto-ignition temperature:	Not determined.
Explosive properties:	Product does not present an explosion hazard.
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
Vapour pressure at 20 °C:	0.0058 hPa
Density at 20 °C:	0.9 g/cm <sup>3</sup>
Relative density	Not determined.
Vapour density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
water:	Insoluble.
Partition coefficient: n-octanol/water at 25 °	° <b>C:</b> 3.34 log KOW (calculado)
Viscosity:	
Dynamic at 20 °C:	11.47 mPas (ASTM D 445-97)

## 10 Stability and reactivity

· Reactivity No dangerous reactions known under normal conditions.

• Chemical stability

• *Thermal decomposition / conditions to be avoided:* No decomposition if used according to specifications.

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- · Possibility of hazardous reactions
- Reacts with strong alkali.
- Exothermic reaction.
- Conditions to avoid No further relevant information available.
- Incompatible materials: Strong bases
- Hazardous decomposition products:
- Carbon monoxide
- Nitrogen oxides (NOx)

## **11 Toxicological information**

- · Information on toxicological effects
- · Acute toxicity
- Harmful if swallowed.
- Primary irritant effect:
- · Skin corrosion/irritation
- Causes skin irritation.
- · Serious eye damage/irritation
- Causes serious eye damage.
- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- Additional toxicological information:
- The product does not contain any substance above the legal limits included on the list for endocrine disrupting properties established under Article 59(1) of Regulation (EC) No 1907/2006 or under Commission Delegated Regulation (EU) 2017/2100 or of Commission Regulation (EU) 2018/605 has endocrine disrupting properties.
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- Reproductive toxicity Based on available data, the classification criteria are not met.
- STOT-single exposure Based on available data, the classification criteria are not met.
- STOT-repeated exposure Based on available data, the classification criteria are not met.
- Aspiration hazard Based on available data, the classification criteria are not met.

## **12 Ecological information**

- · Toxicity
- Aquatic toxicity:
- LC50/96 h: 122 mg/l (Oncorhynchus mykiss)
- EC50/48 h: 68 mg/l (Daphnia magna)
- EC50/72 h: 81 mg/l (Pseudokirchneriella subcapitata)
- **Persistence and degradability** Easily biodegradable
- · Behaviour in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- *Mobility in soil* No further relevant information available.
- Additional ecological information:
- · General notes:
- Water hazard class 1 (German Regulation) (Assessment by list): 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:** This substance is not considered to be persistent, bioaccumulating nor toxic (PBT).
- vPvB: This substance is not considered to be very persistent nor very bioaccumulative (vPvB).
- Other adverse effects No further relevant information available.

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**13 Disposal considerations** 

• Waste treatment methods

• *Recommendation Disposal according to local regulations.* 

· Uncleaned packaging:

• *Recommendation: Disposal must be made according to official regulations.* 

UN-Number		
ADR, ADN, IMDG, IATA	Void	
UN proper shipping name ADR, ADN, IMDG, IATA	Void	
Transport hazard class(es)		
ADR, ADN, IMDG, IATA		
Class	Void	
Packing group		
ADR, IMDG, IATA	Void	
Environmental hazards:		
Marine pollutant:	No	
Special precautions for user	Not applicable.	
Transport in bulk according to Annex II		
and the IBC Code	Not applicable.	

## **15 Regulatory information**

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

· Directive 2012/18/EU

- · REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
- DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment Annex II

Substance is not listed.

· Chemical safety assessment: A Chemical Safety Assessment has 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.

- · Department issuing SDS: Product safety department
- · Contact: Mrs. Steyer

• 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
- IATA: International Air Transport Association
- GHS: Globally Harmonised System of Classification and Labelling of Chemicals
- EINECS: European Inventory of Existing Commercial Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Level (REACH)

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PNEC: Predicted No-Effect Concentration (REACH) PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Acute Tox. 4: Acute toxicity – Category 4 Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Dam. 1: Serious eye damage/eye irritation – Category 1 (Contd. of page 7)