

Safety Data Sheet

IGE25

Replaces date: 1/24/2022

Revision date: 8/28/2023

Version: 1.3.0

SECTION 1: Identification

1.1. GHS Product identifier

Trade name: IGE25

1.2. Recommended use of the chemical and restrictions on use

Recommended uses: Functional fluids.

1.3. Supplier's details

Supplier

Company: Mouldpro ApS
Address: Baltorpbakken 10
Zip code: 2750
City: Ballerup
Country: DENMARK
E-mail: sales@mouldpro.com
Phone: +45 70 20 31 31
Homepage: www.mouldpro.com

1.4. Emergency phone Number

+ 45 70 20 31 31 (Mouldpro) The emergency telephone is open between 8 a.m. and 4 p.m. on workdays.

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS classification: Acute toxicity, Category 4;H302
Skin sensitization, Category 1;H317
Specific target organ toxicity - repeated exposure, Category 2;H373
Hazardous to the aquatic environment, short-term (Acute), Category 3;H402

Most serious harmful effects: Harmful if swallowed. May cause an allergic skin reaction. May cause damage to organs through prolonged or repeated exposure. Harmful to aquatic life. The product releases organic solvent vapors which may cause drowsiness and dizziness. At high concentrations, the vapors may cause headache and intoxication.

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2.2. GHS label elements, including precautionary statements

Pictograms



Signal word: Warning

Contains

Substance: Ethanediol; sodium nitrite; 1,2-benzisothiazol-3(2H)-one;

Hazard Statements

H302 Harmful if swallowed.
H317 May cause an allergic skin reaction.
H373 May cause damage to organs through prolonged or repeated exposure.
H402 Harmful to aquatic life.

Precautionary statements

P260 Do not breathe vapours.
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P280 Wear protective gloves/eye protection/face protection.
P301+312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P333+313 If skin irritation or rash occurs: Get medical advice/attention.

2.3. Other hazards which do not result in classification

None known.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Substance	CAS No./ EC No./ REACH Reg. No.	Concentration	Notes
Ethanediol	107-21-1 203-473-3 01-2119456816-28	95 - 100 %	
sodium nitrite	7632-00-0 231-555-9 01-2119471836-27	< 0.3 %	
1,2-benzisothiazol-3(2H)-one	2634-33-5 220-120-9	0.05 - 0.1 %	

SECTION 4: First-aid measures

4.1. Description of necessary first-aid measures

Inhalation: Seek fresh air. Seek medical advice in case of persistent discomfort.

Ingestion: Wash out mouth thoroughly and drink 1-2 glasses of water in small sips. Seek medical advice in case of discomfort.

Skin contact: Remove contaminated clothing. Wash the skin with water. Seek medical advice in case of persistent discomfort.

Eye contact: Flush with water (preferably using eye wash equipment) until irritation subsides. Seek medical advice if symptoms persist.

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General: Bring the safety data sheet or label when seeking medical advice.

4.2. Most important symptoms/effects, acute and delayed

Harmful if swallowed. May cause damage to organs through prolonged or repeated exposure. The product releases organic solvent vapors which may cause drowsiness and dizziness. At high concentrations, the vapors may cause headache and intoxication. May cause sensitization by skin contact. Symptoms include reddening, swelling, blistering and ulceration - often slowly developing.

4.3. Indication of immediate medical attention and special treatment needed, if necessary

Treat symptoms. No special immediate treatment required.

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

Suitable extinguishing media: Extinguish with powder, foam or water mist. Use water or water mist to cool non-ignited stock.

Unsuitable extinguishing media: Do not use a jet of water, as it may spread the fire.

5.2. Specific hazards arising from the chemical

The product decomposes when combusted and the following toxic gases can be formed: Carbon monoxide and carbon dioxide/ Nitrous gases.

5.3. Special protective actions for fire-fighters

Move containers from danger area if it can be done without risk. Avoid inhalation of vapor and smoke gases - seek fresh air. Wear Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit only where personal (close) contact is likely.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: Stay upwind/keep distance from source. Stop leak if this can be done without risk. Provide good ventilation. Wear safety goggles if there is a risk of eye splash. Wear gloves. In case of insufficient ventilation, wear respiratory protective equipment.

For emergency responders: In addition to the above: Protective suit is recommended.

6.2. Environmental precautions

Prevent spillage from entering drains and/or surface water.

6.3. Methods and materials for containment and cleaning up

Contain and absorb spills using sand or other absorbent material and transfer to suitable waste containers. Wipe up minor spills with a cloth.

6.4. Reference to other sections

See section 8 for type of protective equipment.
See section 13 for instructions on disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Wash hands before breaks, before using restroom facilities, and at the end of work. Running water and eye wash equipment must be available. Work under effective process ventilation (e.g. local exhaust ventilation). A workplace assessment must be conducted to ensure that employees are not exposed to effects that may involve a risk during pregnancy or when breastfeeding.

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7.2. Conditions for safe storage, including any incompatibilities

Store safely, out of reach of children and away from food, animal feeding stuffs, drugs, etc. Do not store with the following: Strong acids/ Strong alkalis/ Strong oxidizers. Store in a dry, cool, well-ventilated area. Keep in tightly closed original packaging.

7.3. Specific end use(s)

No special uses in addition to identified uses in 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limit: Contains no substances subject to reporting requirements.

Measuring methods: Compliance with the stated occupational exposure limits may be checked by occupational hygiene measurements.

8.2. Exposure controls

Appropriate engineering controls: Wear the personal protective equipment specified below.

Personal protective equipment, eye/face protection: Wear safety goggles if there is a risk of eye splash.

Personal protective equipment, hand protection: Wear gloves. Type of material: Nitrile rubber. Breakthrough time has not been determined for the product. Change gloves often. The suitability and durability of a glove is dependant on usage, e.g. frequency and duration of contact, glove material thickness, functionality and chemical resistance. Always seek advice from the glove supplier.

Personal protective equipment, respiratory protection: Light use (small volume, shortterm contact (below 10 min.)): Not required.
Medium use (medium volume, medium contact (1-2 hours)): Filter type: A/AX.

Environmental exposure controls: Ensure compliance with local regulations for emissions.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Parameter	Value/unit
Physical state	Liquid
Color	Colourless
Odour	Characteristic
Solubility	Soluble in the following: Water.

Parameter	Value/unit	Remarks
Odour threshold	No data	
Melting point	No data	
Freezing point	No data	
Boiling point or initial boiling point and boiling range	No data	
Flammability	No data	
Lower and upper flammability limit	No data	
Lower and upper explosion limit	No data	
Flash Point	No data	
Auto-ignition temperature	No data	
Decomposition temperature	No data	
pH (solution for use)	No data	
pH (concentrate)	No data	

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Kinematic viscosity	No data	
Viscosity	No data	
Partition coefficient n-octanol/water (log value)	No data	
Vapour pressure	No data	
Density	No data	
Relative density	No data	
Relative vapour density	No data	
Relative density (sat. air)	No data	
Particle characteristics	No data	

9.2. Other information

Other Information: None.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reacts with the following: Strong acids/ Strong alkalis/ Strong oxidizers.

10.2. Chemical stability

The product is stable when used in accordance with the supplier's directions.

10.3. Possibility of hazardous reactions

Product vapors are heavier than air and may spread along floors. Vapors may form explosive mixtures with air.

10.4. Conditions to avoid

None known.

10.5. Incompatible materials

Strong acids/ Strong alkalis/ Strong oxidizers.

10.6. Hazardous decomposition products

The product decomposes when combusted or heated to high temperatures and the following toxic gases can be formed: Carbon monoxide and carbon dioxide/ Nitrous gases.

SECTION 11: Toxicological information

11.1. Information on health hazard classes

Acute toxicity - oral

sodium nitrite, cas-no 7632-00-0

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LD50		180 mg/kg bw			

Harmful if swallowed.

Acute toxicity - dermal

Ethenediol, cas-no 107-21-1

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Mouse	LD50		> 3500 mg/kg bw			

The product does not have to be classified. Based on existing data, the classification criteria are deemed not to have been met.

Acute toxicity - inhalation

Ethenediol, cas-no 107-21-1

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Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LC50	6h	> 2.5 mg/l			

sodium nitrite, cas-no 7632-00-0

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LC50	4h	0.095 mg/l			

The product does not have to be classified. Based on existing data, the classification criteria are deemed not to have been met.

Skin corrosion/irritation:	May cause slight irritation. The product does not have to be classified. Test data are not available.
Serious eye damage/eye irritation:	Temporary irritation. The product does not have to be classified. Test data are not available.
Respiratory sensitization or skin sensitization:	May cause sensitization by skin contact. Symptoms include reddening, swelling, blistering and ulceration - often slowly developing.
Germ cell mutagenicity:	The product does not have to be classified. Test data are not available.
Carcinogenic properties:	The product does not have to be classified. Test data are not available.
Reproductive toxicity:	The product does not have to be classified. Test data are not available.
Single STOT exposure:	The product releases organic solvent vapors which may cause drowsiness and dizziness. At high concentrations, the vapors may cause headache and intoxication. The product does not have to be classified. Test data are not available.
Repeated STOT exposure:	May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard:	The product does not have to be classified. Test data are not available.

11.2. Information on other hazards

Endocrine disrupting properties: None known.

Other toxicological effects: None known.

SECTION 12: Ecological information

12.1. Toxicity

Ethenediol, cas-no 107-21-1

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
Fish		96h	96hLC50	72860 mg/l			
Crustacea		48h	48hEC50	> 100 mg/l			
Algae		96h	96hEC50	6500 - 13000 mg/l			

sodium nitrite, cas-no 7632-00-0

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
Fish		96h	96hLC50	0.54 - 26.3 mg/l			
Crustacea		48h	48hEC50	15.4 mg/l			
Algae		72h	72hEC50	> 100 mg/l			

Harmful to aquatic life.

12.2. Persistence and degradability

Ethenediol, cas-no 107-21-1

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Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
		10d		90 - 100 %		OECD 301 A	

The product contains at least one biodegradable substance.

12.3. Bioaccumulative potential

Ethanediol, cas-no 107-21-1

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
			Log Pow	-1.36			

sodium nitrite, cas-no 7632-00-0

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
			Log Pow	-3.7			

The product contains at least one substance with low bioaccumulative potential. No bioaccumulation expected.

12.4. Mobility in soil

Test data are not available.

12.5. Results of PBT and vPvB assessment

The product does not contain any PBT or vPvB substances.

12.6. Endocrine disrupting properties

None known.

12.7. Other adverse effects

None known.

SECTION 13: Disposal considerations

13.1. Disposal methods

Avoid discharge to drain or surface water.

Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.

Uncleansed packaging is to be disposed of via the local waste-removal scheme. Empty, cleansed packaging should be disposed of for recycling.

SECTION 14: Transport information

14.1. UN number: Not applicable.

14.2. UN proper shipping name: Not applicable.

14.3. Transport hazard class(es): Not applicable.

14.4. Packing group, if applicable: Not applicable.

14.5. Environmental hazards: Not applicable.

14.6. Special precautions for user

None.

14.7. Transport in bulk according to IMO instruments

Not applicable.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations specific for the product in question

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Special Provisions: None.

15.2. Chemical Safety Assessment

Other Information: Chemical safety assessment has not been performed.

SECTION 16: Other information

Version history and indication of changes

Version	Revision date	Responsible	Changes
1.3.0	8/28/2023	Bureau Veritas HSE / DOL	2,7,16

Abbreviations:
PBT: Persistent, Bioaccumulative and Toxic
STOT: Specific Target Organ Toxicity
vPvB: Very Persistent and Very Bioaccumulative

Other Information: This safety data sheet has been prepared for and applies to this product only. It is based on our current knowledge and the information that the supplier was able to provide about the product at the time of preparation. The safety data sheet complies with applicable law on preparation of safety data sheets in accordance with GHS Rev. 9 (2021).

Training advice: A thorough knowledge of this safety data sheet should be a prerequisite condition.

Classification method: Calculation based on the hazards of the known components.

SDS is prepared by

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