

Lugalvan® FDC

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1. Identification

Product identifier used on the label

Lugalvan® FDC

Recommended use of the chemical and restriction on use Suitable for use in industrial sector: chemical industry

* The "Recommended use" identified for this product is provided solely to comply with a Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement.

Details of the supplier of the safety data sheet

<u>Company:</u> BASF CORPORATION 100 Park Avenue Florham Park, NJ 07932, USA

Telephone: +1 973 245-6000

Emergency telephone number

CHEMTREC: 1-800-424-9300 BASF HOTLINE: 1-800-832-HELP (4357)

Other means of identification Chemical family: Polymer

2. Hazards Identification

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

Classification of the product

No need for classification according to GHS criteria for this product.

Label elements

The product does not require a hazard warning label in accordance with GHS criteria.

Hazards not otherwise classified

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No specific dangers known, if the regulations/notes for storage and handling are considered.

According to Regulation 1994 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

Emergency overview

Wear protective clothing. Use with local exhaust ventilation. Wear full face shield if splashing hazard exists.

3. Composition / Information on Ingredients

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

This product does not contain any components classified as hazardous under the referenced regulation.

According to Regulation 1994 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

CAS Number	Content (W/W)	Chemical name	
	15.0 - 25.0 %	Proprietary	
7732-18-5	75.0 - 85.0 %	Water	

4. First-Aid Measures

Description of first aid measures

General advice:

Remove contaminated clothing.

If inhaled:

Keep patient calm, remove to fresh air.

If on skin:

Wash thoroughly with soap and water.

If in eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open.

If swallowed:

Rinse mouth and then drink plenty of water.

Most important symptoms and effects, both acute and delayed

Symptoms: No significant symptoms are expected due to the non-classification of the product.

Indication of any immediate medical attention and special treatment needed

Note to physician

Treatment:

Treat according to symptoms (decontamination, vital functions), no known specific antidote.

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5. Fire-Fighting Measures

Extinguishing media

Suitable extinguishing media: water spray, dry powder, foam

Special hazards arising from the substance or mixture Advice for fire-fighters

Protective equipment for fire-fighting: Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

Further information:

Contaminated extinguishing water must be disposed of in accordance with official regulations.

6. Accidental release measures

<u>Further accidental release measures:</u> High risk of slipping due to leakage/spillage of product.

Personal precautions, protective equipment and emergency procedures

Use personal protective clothing. Information regarding personal protective measures see, section 8.

Environmental precautions

Do not discharge into drains/surface waters/groundwater.

Methods and material for containment and cleaning up

For small amounts: Pick up with absorbent material (e.g. sand, sawdust, general-purpose binder). Dispose of absorbed material in accordance with regulations. For large amounts: Pump off product. Spills should be contained, solidified, and placed in suitable containers for disposal.

7. Handling and Storage

Precautions for safe handling

No special measures necessary provided product is used correctly.

Protection against fire and explosion: No special precautions necessary.

Conditions for safe storage, including any incompatibilities

Suitable materials for containers: High density polyethylene (HDPE), Low density polyethylene (LDPE), Stainless steel 1.4541, Stainless steel 1.4571, Stainless steel 1.4439, Stainless steel 1.4301 (V2), Stainless steel 1.4401

Further information on storage conditions: Keep container tightly closed and in a cool place. Protect from temperatures below: 0 °C

8. Exposure Controls/Personal Protection

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Personal protective equipment

Respiratory protection:

Wear respiratory protection if ventilation is inadequate. Breathing protection if breathable aerosols/dust are formed.

Hand protection:

Chemical resistant protective gloves

Eye protection:

Safety glasses with side-shields.

Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

General safety and hygiene measures:

Wear protective clothing as necessary to minimize contact. Handle in accordance with good industrial hygiene and safety practice. No eating, drinking, smoking or tobacco use at the place of work. Handle in accordance with good industrial hygiene and safety practice.

9. Physical and Chemical Properties

Form: Odour: Odour threshold: Colour: pH value:	emulsion product specific white to yellow 8.5 - 9.5	not determined (DIN ISO 976) (measured with the undiluted substance)
Freezing point: Boiling point: Flash point: Flammability: Lower explosion limit:	0 °C 100 °C > 100 °C not flammable	(capilliary tube method) (1,013 hPa) (DIN 51758) For liquids not relevant for classification
Upper explosion limit:		and labelling. For liquids not relevant for classification and labelling.
Autoignition: Density: Relative density: Vapour density: Partitioning coefficient n- octanol/water (log Pow): Self-ignition	> 200 °C 0.98 - 1 g/cm3	 (DIN 51794) (23 °C) (ISO 2811-3) No data available. not determined Study does not need to be conducted. Based on the water content the product does not ignite.
temperature: Thermal decomposition: Viscosity, dynamic: Particle size:	not determined < 100 mPa.s	(23 °C)
Solubility in water: Miscibility with water: Solubility (qualitative): Evaporation rate: Other Information:	soluble solvent(s): polar solv If necessary, informa parameters is indicat	not determined tion on other physical and chemical

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10. Stability and Reactivity

Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

Oxidizing properties: not fire-propagating Formation of Remarks: flammable gases:

Forms no flammable gases in the presence of water.

Chemical stability

The product is stable if stored and handled as prescribed/indicated.

Peroxides: 0.000 % The product does not contain peroxides.

Possibility of hazardous reactions

No hazardous reactions when stored and handled according to instructions. The product is chemically stable.

Conditions to avoid

See MSDS section 7 - Handling and storage.

Incompatible materials

None known during use and storage if used according to instructions.

Hazardous decomposition products

Decomposition products: Hazardous decomposition products: No hazardous decomposition products if stored and handled as prescribed/indicated.

Thermal decomposition: not determined

11. Toxicological information

Primary routes of exposure

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

Acute Toxicity/Effects

<u>Acute toxicity</u> Assessment of acute toxicity: Virtually nontoxic after a single ingestion.

<u>Oral</u> Type of value: LD50 Species: rat Value: > 2,000 mg/kg

Inhalation

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Type of value: LC50 Species: rat not determined

Dermal Type of value: LD50 Species: rat not determined

Assessment other acute effects No data available.

<u>Irritation / corrosion</u> Assessment of irritating effects: Not irritating to the eyes. Not irritating to the skin.

<u>Skin</u> Species: rabbit Result: non-irritant Method: OECD Guideline 404

<u>Eye</u> Species: rabbit Result: non-irritant Method: OECD Guideline 405

<u>Sensitization</u> Assessment of sensitization: No data available.

<u>Aspiration Hazard</u> No aspiration hazard expected.

Chronic Toxicity/Effects

<u>Repeated dose toxicity</u> Assessment of repeated dose toxicity: No data available.

<u>Genetic toxicity</u> Assessment of mutagenicity: No data available concerning mutagenic effects.

<u>Carcinogenicity</u> Assessment of carcinogenicity: No data available concerning carcinogenic effects.

<u>Reproductive toxicity</u> Assessment of reproduction toxicity: No data available.

<u>Teratogenicity</u> Assessment of teratogenicity: No data available.

Other Information

The product has not been tested. The statements on toxicology have been derived from products of a similar structure and composition.

Symptoms of Exposure

No significant symptoms are expected due to the non-classification of the product.

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12. Ecological Information

Toxicity

<u>Toxicity to fish</u> LC50 (96 h) > 100 mg/l, Fish

Aquatic invertebrates LC50 (48 h), daphnia not determined

<u>Aquatic plants</u> EC50 (72 h), algae not determined

Chronic toxicity to fish No data available.

Chronic toxicity to aquatic invertebrates No data available.

Microorganisms/Effect on activated sludge

Toxicity to microorganisms bacteria/EC50 (0.5 h): not determined

Persistence and degradability

Elimination information

> 80 % DOC reduction (OECD 302B; ISO 9888; 88/302/EEC,part C)

Bioaccumulative potential

Assessment bioaccumulation potential The product has not been tested.

Mobility in soil

Assessment transport between environmental compartments No data available.

Additional information

Add. remarks environm. fate & pathway: Treatment in biological waste water treatment plants has to be performed according to local and administrative regulations.

Other ecotoxicological advice:

The product has not been tested. The statements on ecotoxicology have been derived from products of a similar structure and composition.

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13. Disposal considerations

Waste disposal of substance:

Dispose of in accordance with national, state and local regulations. It is the waste generator's responsibility to determine if a particular waste is hazardous under RCRA.

Container disposal:

Dispose of in a licensed facility. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.

RCRA: None

14. Transport Information

Land transport USDOT

Not classified as a dangerous good under transport regulations

Sea transport IMDG

Not classified as a dangerous good under transport regulations

Air transport IATA/ICAO

Not classified as a dangerous good under transport regulations

15. Regulatory Information

Federal Regulations

Registration status: Chemical TSCA, US released / listed

EPCRA 311/312 (Hazard categories): Not hazardous;

CERCLA RQ	CAS Number		Chemic	Chemical name				
100 LBS	74-85-1		ethene					
NFPA Hazard codes:								
Health: 1	Fire: 1	Reactiv	ity: 0	Special:				
HMIS III rating								
Health: 1	Flammability:	1 F	hysical ha	zard:0				

16. Other Information

SDS Prepared by: BASF NA Product Regulations

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