

Safety Data Sheet

Plurafac® LF 303

Revision date : 2019/09/27

Version: 3.0

Page: 1/10

(30079911/SDS_GEN_US/EN)

1. Identification

Product identifier used on the label

Plurafac® LF 303

Recommended use of the chemical and restriction on use

Recommended use*: Raw material for the chemical-technical industry

Recommended use*: Raw material

* 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

Company:

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: surfactant

Synonyms: Not available. Use: Chemical used in synthesis and/or formulation of industrial products

2. Hazards Identification

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

Classification of the product

Acute Tox.

4 (oral)

Acute toxicity

Label elements

Pictogram:

Safety Data Sheet

Plurafac® LF 303

Revision date : 2019/09/27
Version: 3.0

Page: 2/10
(30079911/SDS_GEN_US/EN)



Signal Word:
Warning

Hazard Statement:
H302 Harmful if swallowed.

Precautionary Statements (Prevention):
P270 Do not eat, drink or smoke when using this product.
P264 Wash with plenty of water and soap thoroughly after handling.

Precautionary Statements (Response):
P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P330 Rinse mouth.

Precautionary Statements (Disposal):
P501 Dispose of contents/container to hazardous or special waste collection point.

Hazards not otherwise classified

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

Labeling of special preparations (GHS):

The following percentage of the mixture consists of components(s) with unknown hazards regarding the acute toxicity: 100 % dermal

The following percentage of the mixture consists of components(s) with unknown hazards regarding the acute toxicity: 100 % Inhalation - vapour

The following percentage of the mixture consists of components(s) with unknown hazards regarding the acute toxicity: 100 % Inhalation - mist

This surfactant complies with the biodegradability criteria as laid down in Regulation (EC)

No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them at their direct request or at the request of a detergent manufacturer.

3. Composition / Information on Ingredients

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

<u>CAS Number</u>	<u>Weight %</u>	<u>Chemical name</u>
9038-95-3	>= 75.0 - <= 100.0%	Oxirane, methyl-, polymer with oxirane, monobutyl ether

4. First-Aid Measures

Description of first aid measures

General advice:
Remove contaminated clothing.

Safety Data Sheet

Plurafac® LF 303

Revision date : 2019/09/27
Version: 3.0

Page: 3/10
(30079911/SDS_GEN_US/EN)

If inhaled:

Keep patient calm, remove to fresh air, seek medical attention.

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:

Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

Most important symptoms and effects, both acute and delayed

Symptoms: Additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11.

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.

Treatment: Symptomatic treatment (decontamination, vital functions).

5. Fire-Fighting Measures

Extinguishing media

Suitable extinguishing media:
water spray, dry powder, foam

Unsuitable extinguishing media for safety reasons:
water jet

Special hazards arising from the substance or mixture

Hazards during fire-fighting:

harmful vapours

Evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire.

Advice for fire-fighters

Protective equipment for fire-fighting:

Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

Further information:

The degree of risk is governed by the burning substance and the fire conditions. Contaminated extinguishing water must be disposed of in accordance with official regulations.

6. Accidental release measures

Further accidental release measures:

High risk of slipping due to leakage/spillage of product.

Safety Data Sheet

Plurafac® LF 303

Revision date : 2019/09/27

Version: 3.0

Page: 4/10

(30079911/SDS_GEN_US/EN)

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.

Place absorbed material in the same container as the spilled substance/product for disposal.

7. Handling and Storage

Precautions for safe handling

Shut containers immediately after taking product because product takes up the humidity of air.

Conditions for safe storage, including any incompatibilities

Further information on storage conditions: Containers should be stored tightly sealed in a dry place.

Storage stability:

Storage temperature: $\leq 70\text{ }^{\circ}\text{C}$

The product is not damaged by low temperatures or by frost.

Protect from temperatures above: $70\text{ }^{\circ}\text{C}$

Properties of the product change irreversibly on exceeding the limit temperature.

8. Exposure Controls/Personal Protection

No occupational exposure limits known.

Personal protective equipment

Respiratory protection:

Respiratory protection in case of vapour/aerosol release. Particle filter with medium efficiency for solid and liquid particles (e.g. EN 143 or 149, Type P2 or FFP2)

Hand protection:

Chemical resistant protective gloves

Eye protection:

Wear face shield or tightly fitting safety goggles (chemical goggles) if splashing hazard exists.

Body protection:

Body protection must be chosen based on level of activity and exposure.

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.

Safety Data Sheet

Plurafac® LF 303

Revision date : 2019/09/27

Version: 3.0

Page: 5/10

(30079911/SDS_GEN_US/EN)

9. Physical and Chemical Properties

Form:	liquid	
Odour:	product specific	
Odour threshold:	not determined	
Colour:	colourless to slightly yellow	
pH value:	approx. 7 (50 g/l, 23 °C) (as an emulsion)	(DIN EN 1262)
solidification temperature:	< -20 °C	(DIN 51583)
Boiling point:	> 149 °C	
Flash point:	> 150 °C	(DIN 51758)
Flammability:	not self-igniting	
Lower explosion limit:	For liquids not relevant for classification and labelling. The lower explosion point may be 5 - 15 °C below the flash point.	
Upper explosion limit:	For liquids not relevant for classification and labelling.	
Autoignition:	> 200 °C	(DIN 51794)
Vapour pressure:	< 0.1 hPa (20 °C)	
Density:	approx. 1 g/cm3 (23 °C)	(DIN 51757)
Relative density:	No data available.	
Vapour density:	not determined	
Partitioning coefficient n-octanol/water (log Pow):	not determined	
Self-ignition temperature:	not self-igniting	
Thermal decomposition:	> 300 °C	
Viscosity, dynamic:	350 mPa.s (23 °C)	
Particle size:	The substance / product is marketed or used in a non solid or granular form.	
Solubility in water:	insoluble	
Miscibility with water:	not (e.g. <10%)	
Solubility (qualitative):	soluble solvent(s): polar solvents,	
Evaporation rate:	Value can be approximated from Henry's Law Constant or vapor pressure.	
Other Information:	If necessary, information on other physical and chemical parameters is indicated in this section.	

10. Stability and Reactivity

Reactivity

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

Corrosion to metals:

Corrosive effects to metal are not anticipated.

Oxidizing properties:

not fire-propagating

Safety Data Sheet

Plurafac® LF 303

Revision date : 2019/09/27

Version: 3.0

Page: 6/10

(30079911/SDS_GEN_US/EN)

Chemical stability

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

Possibility of hazardous reactions

No hazardous reactions when stored and handled according to instructions.

The product is chemically stable.

Conditions to avoid

Avoid humidity. See MSDS section 7 - Handling and storage.

Incompatible materials

caustics, halogens, Alkalines, acids, reactive chemicals

Hazardous decomposition products

Decomposition products:

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

Thermal decomposition:

> 300 °C

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

Oral

Type of value: LD50

Species: rat

Value: > 300 - 2,000 mg/kg (OECD Guideline 423)

Inhalation

Type of value: LC50

Species: rat

not determined

Dermal

Type of value: LD50

Species: rat

not determined

Assessment other acute effects

No data available.

Skin

Species: rabbit

Result: non-irritant

Method: OECD Guideline 404

Safety Data Sheet

Plurafac® LF 303

Revision date : 2019/09/27
Version: 3.0

Page: 7/10
(30079911/SDS_GEN_US/EN)

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Eye

Species: rabbit

Result: non-irritant

Method: OECD Guideline 405

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Sensitization

Assessment of sensitization: No data available.

Aspiration Hazard

No aspiration hazard expected.

Chronic Toxicity/Effects

Repeated dose toxicity

Assessment of repeated dose toxicity: No data available.

Genetic toxicity

Assessment of mutagenicity: No data available.

Carcinogenicity

Assessment of carcinogenicity: No data available.

None of the components in this product at concentrations greater than 0.1% are listed by IARC; NTP, OSHA or ACGIH as a carcinogen.

Reproductive toxicity

Assessment of reproduction toxicity: No data available.

Teratogenicity

Assessment of teratogenicity: No data available.

Symptoms of Exposure

Additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11.

12. Ecological Information

Toxicity

Toxicity to fish

LC50 (96 h) > 100 mg/l, Brachydanio rerio (OECD Guideline 203)

The statement of the toxic effect relates to the analytically determined concentration.

Aquatic invertebrates

EC50 (48 h) > 100 mg/l, Daphnia magna

Aquatic plants

EC50 (72 h) > 100 mg/l, Scenedesmus subspicatus

Chronic toxicity to fish

No data available.

Safety Data Sheet

Plurafac® LF 303

Revision date : 2019/09/27
Version: 3.0

Page: 8/10
(30079911/SDS_GEN_US/EN)

Chronic toxicity to aquatic invertebrates

No data available.

Assessment of terrestrial toxicity

No data available concerning terrestrial toxicity.

Persistence and degradability

Elimination information

> 60 % BOD of the ThOD (28 d) (OECD Guideline 301 F) (aerobic, activated sludge, domestic)
Readily biodegradable.

Mobility in soil

Assessment transport between environmental compartments

The substance will not evaporate into the atmosphere from the water surface.
Adsorption to solid soil phase is possible.

Additional information

Adsorbable organically-bound halogen (AOX):
This product contains no organically-bound halogen.

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:
Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations.

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 accordance with national, state and local regulations.

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

Safety Data Sheet

Plurafac® LF 303

Revision date : 2019/09/27
Version: 3.0

Page: 9/10
(30079911/SDS_GEN_US/EN)

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): Refer to SDS section 2 for GHS hazard classes applicable for this product.

<u>CERCLA RQ</u>	<u>CAS Number</u>	<u>Chemical name</u>
5000 LBS	64-19-7	Acetic acid
1000 LBS	75-07-0	acetaldehyde
100 LBS	75-29-6; 540-54-5; 590-21-6; 557-98- 2; 75-56-9; 123- 91-1	2-chloropropane; Propane, 1-chloro-; 1-Propene, 1-chloro-; 1-Propene, 2-chloro-; Propylene oxide; 1,4-dioxane
10 LBS	75-21-8	Ethylene Oxide

Safe Drinking Water & Toxic Enforcement Act, CA Prop. 65:

WARNING: This product can expose you to chemicals including ETHYLENE OXIDE, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov.

NFPA Hazard codes:

Health: 1 Fire: 1 Reactivity: 0 Special:

HMIS III rating

Health: 1 Flammability: 1 Physical hazard: 0

16. Other Information

SDS Prepared by:

BASF NA Product Regulations
SDS Prepared on: 2019/09/27

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Safety Data Sheet

Plurafac® LF 303

Revision date : 2019/09/27

Page: 10/10

Version: 3.0

(30079911/SDS_GEN_US/EN)

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