



# **GLOBAL PRODUCT STRATEGY SAFETY SUMMARY**

# EMAL 2F PASTE

This document is a high-level summary intended to provide the general public with an overview of product safety for this substance. It is not intended to replace the Safety Data Sheet, which is available from suppliers and should be referred to for full details of recommended safety procedures for each type of use. It is not intended to replace or supersede manufacturer's instructions and warnings for their consumer products containing this substance.

## 1. Substance Identity

Brand Name: EMAL 2F PASTE

Chemical Name: Sodium lauryl sulfate

CAS Number: 151-21-3

## 2. Uses and Applications

EMAL 2F PASTE is an anionic surfactant of vegetable origin. It is commonly found in washing and cleaning products, air fresheners, cosmetic products, polishes, construction chemicals, fuels, fertilizers, textile articles, coatings and inks, water treatment, pest control and plant protection products. Furthermore, it is used in lubricants and greases and as solvent or adhesive in a wide variety of applications.

# 3. Physical/chemical properties

Property	Value
Physical state	Viscous liquid
Colour	Light yellow clear
Odour	Slightly characteristic odour
рН	7.5 (4% solution)

EMAL 2F PASTE has no identified physicochemical hazards.

	1.0419 g/mL (30 °C) (86 °F)	
Density	1.0364 g/mL (40 °C) (104 °F)	
	1.0314 g/mL (50 °C) (122 °F)	
	305 mPa·s (30 °C) (86 °F)	
Viscosity	143 mPa·s (40 °C) (104 °F)	
	63 mPa·s (50 °C) (122 °F)	
Melting point	No information available	
Boiling point	No information available	
Flash point	Not applicable	
Flammability	No information available	
Explosive properties	No information available	
Self – ignition temperature	No information available	
Vapour pressure	No information available	
Water solubility	Soluble	
Octanol-water partition coefficient (log Kow)	No information available	

## 4. Human Health Safety Assessment

Undiluted substance causes skin irritation and serious eye damage. The repeated exposure of EMAL 2F PASTE does not cause any toxic effects

Effect assessment	Result
Acute toxicity Oral / dermal	Based on the available data not considered to be acutely toxic by the oral / dermal exposure.
Irritation / corrosion Skin / eye	Undiluted substance causes skin irritation Causes serious eye damage
Sensitization	Based on the available data, not considered to cause allergic skin reaction.
Toxicity after repeated exposure	Based on the available data, not considered to cause damage to organs through prolonged or repeated oral exposure.
Mutagenicity	Based on the available data, not considered to cause genetic defects.
Carcinogenicity	Based on the available data, not considered to cause cancer.
Toxicity for reproduction	Based on the available data, not considered to be damaging to fertility or the unborn child.

# 5. Environmental Safety Assessment

Based on the available data, EMAL 2F PASTE could cause toxicity to aquatic organisms and harmful to aquatic life with long lasting effects. However, EMAL 2F PASTE is unlikely to

persist in the environment because of showing the readily biodegradation. EMAL 2F PASTE is unlikely to cause bioaccumulation by the food chain, because EMAL 2F PASTE is not PBT/ vPvB.

Effect assessment	Result
Aquatic toxicity	Based on the available data, likely to cause toxicity to aquatic organism and harmful to aquatic life with long lasting effects
Biodegradation	Readily biodegradable
PBT/ vPvB conclusion*	Not persistent in the environment, not bioaccumulating in organisms and not toxic nor very persistent and very bioaccumulating

\*PBT=Persistent, Bioaccumulative and Toxic

vPvB=Very Persistent and Very Bioaccumulative

## 6. Exposure potential

#### Consumer

Consumer will come in contact with the substance in preparations like e.g. washing and cleaning products, air fresheners, cosmetic products, polishes, fertilizers, textile articles, coatings and inks. The concentration of the substance in these applications is below the level which would give rise to concern. When used as recommended all uses do not pose a risk for consumer. Nevertheless, consumer should always read product information before use and follow the label/ use instructions.

#### <u>Worker</u>

Exposure can occur either in EMAL 2F PASTE manufacturing facility or in the various industrial facilities that use EMAL 2F PASTE. Those working with EMAL 2F PASTE in industrial operations could be exposed during maintenance, sampling, testing, or other procedures. Only qualified and trained workers handle the neat substance. Each manufacturing facility offers a thorough training program for employees and appropriate work processes, as well as safety equipment (goggles and gloves) in place to limit unnecessary exposure. Safety showers and eye-wash stations are accessible nearby. Workers have been trained to follow the safety measures in the Safety Data Sheet (SDS).

#### Environment

Due to its divers application releases of EMAL 2F PASTE to waste water treatment plants may occur at production and industrial handling sites (preparation, handling, storage of substance) as well as from consumer households, for example through washing and cleaning products. However, as demonstrated in the hazard assessment, EMAL 2F PASTE is considered to be readily biodegradable and is therefore removed from waste water during waste water treatment processes. Remaining insignificant amounts reaching surface waters are rapidly removed by biological degradation processes. Hence, exposure of aquatic organisms for a prolonged time period is unlikely. Further, the substance is not expected to accumulate in the food chain. Nevertheless, an exposure assessment for all identified uses was conducted which resulted in a negligible risk for the environment. Consequently, all identified uses of the substance are considered to be safe for the environment.

#### 7. Risk management recommendations

When you use the substance, make sure to be measured the adequate ventilation. Always wear appropriate eye protection equipment. Do not eat, drink or smoke where the substance is handled, processed or stored. Wash hands and skin after contact with the substance. Wash hands and skin with a large amounts of water and soap, when the substance attaches to skin (or hair), take off the contaminated clothes. When it causes your skin irritation, seek medical advice/attention. If the substance gets into your eyes, rinse your eyes thoroughly for several minutes. If you wear contact lens, and you can take it off easily, take it off and continue to rinse your eyes. Contact to a doctor immediately.

Waste water containing the substance must be passed the waste water treatment plants in order to remove the substance. No specific measures are needed, because it is not expected to be released into the air.

## 8. Regulatory information / Classification and labelling

Under GHS substances are classified according to their physical, health, and environmental hazards. The hazards are communicated via specific labels and the Safety Data Sheet. GHS attempts to standardize hazard communication so that the intended audience (workers, consumers, transport workers, and emergency responders) can better understand the hazards of the chemicals in use.

## Labeling according to UN GHS

UN GHS is the basis for country specific GHS labeling. EMAL 2F PASTE may be assigned to following GHS classification.



## **Classification and Labeling Information**

Skin Irrit. 2 Eye Dam. 1 Aquatic Acute 2 Aquatic Chronic 3

## Hazard Statements:

H315: Causes skin irritation H318: Causes serious eye damage H401: Toxic to aquatic life H412: Harmful to aquatic life with long lasting effects

## Signal Word

Danger

The laws of manufacturing, sale, transport, use and disposal are different among countries or areas. Details are referred to Safety Data Sheet provided by the supplier.

## 9. Conclusion

Though EMAL 2F PASTE is suggested to cause a toxicity to aquatic organisms and harmful to aquatic life with long lasting effects, there is no concern to the environmental organisms due to the rapid biodegradation of EMAL 2F PASTE. In the PBT/vPvB assessments for EMAL 2F PASTE, the substance is not PBT/vPvB. Contact with the undiluted EMAL 2F PASTE may cause irritation to the skin and serious damage to the eyes. When handling the substance, workers should follow the standard safety measures and refer to the Safety Data Sheet. Consumers will usually not come into contact with the substance bulk and the substance is used diluted products, therefore, it is considered that EMAL 2F PASTE gives rise no hazardous effects to human health.

## 10. Contact information within company

For further information on this substance or product safety summaries in general, please contact:

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Additional information ca	n he found at the International Council of Chemical Ass

Additional information can be found at the International Council of Chemical Associations portal, found at <u>http://www.icca-chem.org/en/Home/ICCA-initiatives/global-product-strategy/</u>.

Acute Toxicity	Adverse effects that result from a single exposure
Biodegradation	Biological degradation of a substance in environments
Bioaccumulation	Accumulation of substances in environments
Carcinogenicity	Action influence to cause a cancer
Toxicity after repeated exposure	Adverse effects that result from repeated exposure
GHS	Globally Harmonized System of Classification and Labeling of Chemicals
Hazard	Hazardous property for human health or environments
Mutagenicity	Effects to induce gene mutations
Toxicity for reproduction	Adverse effects for teratogenicity, embryotoxicity, and reproductivity
Sensitization	Inducibility of allergy

## 11. Glossary

## 12. Date of issue

December 21, 2017