



# **GLOBAL PRODUCT STRATEGY SAFETY SUMMARY**

# MYDOL 12

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: MYDOL 12

Chemical Name: Alkyl(C10-16) polyglucoside (Main component)

CAS Number: 110615-47-9 (Main component)

# 2. Uses and Applications

MYDOL 12 is a non-ionic surfactant. It is used as consumer products contained in various detergents, body cleansing agent, and others.

For the industrial use, MYDOL 12 is used as aqueous cleaner, emulsifier, and others.

# 3. Physical/Chemical Properties

MYDOL 12 has no identified physicochemical hazards.

Property	Value
Physical state	Viscous liquid
Colour	Pale yellow
Odour	Slightly characteristic odour

рН	10 (4% solution)
	1.069 g/mL (20 °C) (68 °F)
Density	1.054 g/mL (40 °C) (104 °F)
	1.039 g/mL (60 °C) (140 °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
	510 mPa·s (20 °C) (68 °F)
Viscosity	150 mPa·s (40 °C) (104 °F)
	44 mPa·s (60 °C) (140 °F)

# 4. Human Health Safety Assessment

Consumer: The exposure to MYDOL 12 is at safe levels. Worker: The repeated exposure of MYDOL 12 does not cause any toxic effects

Effect Assessment	Result
	No acute toxicity after oral/ dermal exposure in
Acute Toxicity	practical use
oral/ dermal	The substance does not cause damage to any organs
	following single exposure
Irritation	Undiluted substance causes skin irritation
skin/ eye	Causes serious eye damage
Sensitization	Based on the available data, unlikely to cause allergic
	skin reaction
Toxicity after repeated exposure	Unlikely to cause any toxic effects through prolonged
Toxicity after repeated exposure	or repeated oral exposure in practical use
Mutagenicity	Based on the available data, unlikely to cause genetic
	defects
Carcinogenicity	Based on the available data, unlikely to cause cancer
Toxicity for reproduction	May damage fertility or the unborn child by containing
	ethanol

# 5. Environmental Safety Assessment

The test results with fish, aquatic invertebrates and algae suggest that MYDOL 12 could cause toxicity for aquatic organism. However, MYDOL 12 is unlikely to persist in the environment because of showing the readily biodegradation. MYDOL 12 is unlikely to cause bioaccumulation by the food chain, because MYDOL 12 is not PBT/ vPvB.

Effect Assessment	Result
Aquatic Toxicity	Based on the available data, likely to cause toxicity for 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

#### Consumer

The consumer can come into contact with the substance in use of the detergent and others, but the concentration of MYDOL 12 in use is below the level which would give rise harmful effects of concern. When it's used as the recommended use, consumer should always read product information before use and follow the label/ use instructions.

# <u>Worker</u>

The exposure can occur either in MYDOL 12 manufacturing facilities or in the various industrial facilities when MYDOL 12 is used. Those workers in industrial operations during maintenance, sampling, testing, or other procedures could be exposed with MYDOL 12. Only qualified and trained workers handle the undiluted substance. The manufacturing facilities offer thorough training program for employees and appropriate work processes, as well as safety equipment (goggles and gloves) in place to present an unnecessary exposure. Safety showers and eye-wash stations are accessible nearby. Workers are required to be trained in accordance with the safety measures in the Safety Data Sheet.

#### **Environment**

Since this substance is used extensively, it is discharged to waste water treatment plants from industrial sites such as manufacturing, preparation, handling, storage and use of the substance as well as from consumer households. However, the substance is readily biodegradable, so that it is removed efficiently in waste water treatment plants. The substance is biologically degraded in the surface water even if it remained slightly in the waste water. Hence, the chronic exposure to aquatic organisms of the substance is unlikely to occur. Furthermore, the substance does not accumulate by the food chain, and there is no concern to human health by the exposure of the substance through environmental pathway.

#### 7. Risk management recommendations

When you use the substance, make sure to be measured the adequate ventilation. Always use appropriate chemical-resistant gloves to protect your hands and skin and always wear 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. When the substance attaches to skin (or hair), take off the contaminated clothes. Wash with a large amount of water and soap. 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 lenses, 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 Labeling

Under GHS classification chemical substances are classified in hazards for physical properties, human health and environment. The hazard information for industrial products are transmitted via specific labels and Safety Data Sheet. GHS offers the standardization for hazard communication. The subjects who could be assumed to be exposed to the substance, workers, consumers, transport workers, and emergency responders, can better understand the hazards of the chemicals in use through the transmission.

# Labeling according to UN GHS

UN GHS is the basis for country specific GHS labeling. MYDOL 12 may be assigned to following GHS classification.



# **Classification and labeling information**

Skin Irrit. 2 Eye Dam. 1 Repro. Tox. 1A Aquatic Acute 2

# Hazard Statements:

H315: Causes skin irritationH318: Causes serious eye damageH360: May damage fertility or the unborn childH401: Toxic to aquatic life

# 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 MYDOL 12 is suggested to cause toxicity to aquatic organisms, there is no concern to the environmental organisms due to the rapid biodegradation of MYDOL 12. In the PBT/vPvB assessments for MYDOL 12, the substance is not PBT/vPvB. Contact with the undiluted MYDOL 12 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 MYDOL 12 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 can be found at the International Council of Chemical Associations portal, found at <u>http://www.icca-chem.org/</u>.

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

# 11. Glossary

#### 12. Date of Issue

19 Dec. 2016