

## SAFETY DATA SHEET

acc.to ISO/DIS 11014 for USA

## PRODUCT AND COMPANY IDENTIFICATION

#### 1.1 Product identifier Product name: RENOFORM MCO 3028

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Other means of identification: For further information, please refer to section 9 of the SDS.

- 1.2 Relevant identified uses of the substance or mixture and uses advised against Identified uses: Metal working Uses advised against: No uses advised against identified.
- 1.3 Details of the supplier of the safety data sheet **US** Distributor Manufacturer Fuchs Schmierstoffe GmbH Fuchs Lubricants Co. Friesenheimer Str. 19 17050 Lathrop Avenue Harvey, IL 60426 (708) 333-8900 (800) 255-3924 24 hrs Emergency 68169 Mannheim Telephone: +49 621 3701-0 (ZENTRALE) Fax: +49 621 3701-570 Fuchs Schmierstoffe GmbH Abteilung Produktsicherheit **Contact Person:** Telephone: +49 621 3701-1333 Fax: +49 621 3701-7303 E-mail: PRODUKTSICHERHEIT@FUCHS-SCHMIERSTOFFE.DE 708-333-8900
- 1.4 US contact telephone :
   708-333-8900

   Emergency telephone:
   800-255-3924

## 2 HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

The product has been classified and labelled as hazardous according to the legislation in force.

#### **Environmental Hazards**

Chronic hazards to the aquatic environment Category 3

#### Hazard summary

Physical Hazards: No data available.



## 2.2 Label Elements

Hazard Statement(s):	H412: Harmful to aquatic life with long lasting effects.	
Precautionary Statement	ts	
Prevention:	P273: Avoid release to the environment.	
Disposal:	P501: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.	
2.3 Other hazards:	By handling of mineral oil products and chemical products no particular hazard is known when normal precautions (item 7) and personal protective equipment (item 8) are kept. The product may not be released into the environment without control.	
Unknown toxicity:	Due to information available product does not contain any ingredients of unknown toxicity.	

## COMPOSITION / INFORMATION ON INGREDIENTS

**General information:** Mixture containing severely refined base oils and additives.

Chemical name	Identifier	Concentration *	Notes
Calcium Sulfonate	722503-68-6	1.00 - <5.00%	
Calcium Sulfonate	61789-86-4	1.00 - <5.00%	
Polyoxyalkylene	173832-45-6	1.00 - <5.00%	
phenolic antioxidant	128-37-0	0.25 - <1.00%	

\* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

## Classification

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Chemical name	Identifier	Classification
Calcium Sulfonate	722503-68-6	, Aquatic Chronic 4;H413
Calcium Sulfonate	61789-86-4	Skin Sens. 1B;H317
Polyoxyalkylene	173832-45-6	Aquatic Chronic 3;H412
phenolic antioxidant	128-37-0	Aquatic Acute 1;H400, Aquatic Chronic 1;H410

Please note that the mineral oils and petroleum distillates used in our products are severely refined and have a DMSO extract < 3% as measured by method IP 346 and are not classified as carcinogenic according to Note L of Annex VI of Regulation EC 1272/2008."

## 4 FIRST AID MEASURES

#### General:

Instantly remove any clothing soiled by the product.



4.1 Description of first aid measu Inhalation:	<b>Ires</b> Supply fresh air; consult doctor in case of symptoms.
Eye contact:	Promptly wash eyes with plenty of water while lifting the eye lids.
Skin Contact:	Wash with soap and water.
Ingestion:	Rinse mouth thoroughly.
4.2 Most important symptoms and effects, both acute and delayed:	May cause skin and eye irritation.
4.3 Indication of any immediate medical attention and special treatment needed	Get medical attention if symptoms occur.
SECTION 5: Firefighting measures	

5.1 Extinguishing media	
Suitable extinguishing media:	CO2, fire extinguishing powder or fog like water spraying. Extinguish larger fires with alcohol resistant foam or spray water with suitable surfactant added
Unsuitable extinguishing media:	Water with a full water jet.
5.2 Special hazards arising from the substance or mixture:	During fire, gases hazardous to health may be formed.
5.3 Advice for firefighters	
Special fire fighting procedures:	Move container from fire area if it can be done without risk. Dispose of fire debris and contaminated fire fighting water inaccordance with official regulations. Collect contaminated fire fighting water separately. It must not enter drains.
Special protective equipment for fire-fighters:	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
SECTION 6: Accidental release me	easures
6.1 Personal precautions, protective equipment and emergency procedures:	In case of spills, beware of slippery floors and surfaces.
6.2 Environmental Precautions:	Avoid release to the environment. Prevent further leakage or spillage if safe



6.3 Methods and material for containment and cleaning up:	Absorb with liquid-binding material (sand, diatomite, acidbinders, universal binders, sawdust). Dispose of the material collected according to regulations. Stop the flow of material, if this is without risk.
6.4 Reference to other sections:	See Section 8 of the SDS for Personal Protective Equipment. See Section 7 for information on safe handling See Section 13 for information on disposal.

#### SECTION 7: Handling and storage:

7.1 Precautions for safe handling:	Prevent formation of aerosols. Do not eat, drink or smoke when working with the product. Take usual precautions when handling mineral oil products or chemical products. Observe good industrial hygiene practices. Provide adequate ventilation.
7.2 Conditions for safe storage, including any incompatibilities:	Local regulations concerning handling and storage of waterpolluting products have to be followed. Do not heat up to temperatures close to the flash point.
7.3 Specific end use(s):	Not applicable

#### 8 **EXPOSURE CONTROLS / PERSONAL PROTECTION**

#### **8.1.Exposure Limits**

Chemical name	Туре	Exposure Limit Values	Source
Base oil - Mist.	PEL	_	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Base oil - Mist.	TWA	•	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
Base oil - Inhalable fraction.	TWA		US. ACGIH Threshold Limit Values (03 2014)
phenolic antioxidant	TWA		US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
phenolic antioxidant - Inhalable fraction and vapor.	TWA		US. ACGIH Threshold Limit Values (02 2012)

#### 8.2.Exposure controls

controls:

Appropriate engineering Provide adequate ventilation. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

#### Individual protection measures, such as personal protective equipment

**General information:** Wash hands before breaks and after work. Use personal protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment. The usual precautionary measures should be adhered to inhandling the chemicals or the mineral oil products.



Eye/face protection:	Safety glasses (EN 166) recommended during refilling.
Skin protection Hand Protection:	Material: Nitrile-butadiene rubber (NBR). Min. Breakthrough time: >= 480 min Recommended thickness of the material: >= 0.38 mm Avoid long-term and repeated skin contact. Suitable gloves can be recommended by the glove supplier. Use skin protection cream for preventive skin protection. Protective gloves, where permitted in acc. to safety directions. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
Other:	Do not carry cleaning cloths impregnated with the product in trouser pockets. Wear suitable protective clothing.
Respiratory Protection:	Ensure good ventilation/exhaustion at the workplace. Avoid breathing vapour/ aerosol.
Thermal hazards:	No data available.
Hygiene measures:	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned.
Environmental Controls:	No data available.

## 9 PHYSICAL AND CHEMICAL PROPERTIES

## 9.1 Information on basic physical and chemical properties Appearance

1 2	
Physical state:	liquid
Color:	Brown
Odor:	Characteristic
Odor Threshold:	Not applicable for mixtures
pH:	Not applicable
Freezing point:	Not applicable for mixtures
Boiling Point:	Not applicable
Flash Point:	155 °C
Evaporation Rate:	Not applicable for mixtures
Flammability (solid, gas):	Value not relevant for classification
Flammability Limit - Upper (%)–:	Not applicable for mixtures
Flammability Limit - Lower (%)–:	Not applicable for mixtures
Vapor pressure:	Not applicable for mixtures
Vapor density (air=1):	Not applicable for mixtures
Density:	0.91 g/cm3 (15 °C)
Solubility(ies)	
Solubility in Water:	Insoluble in water



Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	Not applicable for mixtures
Autoignition Temperature:	Value not relevant for classification
Decomposition Temperature:	Value not relevant for classification
Kinematic viscosity:	130 mm2/s (40 °C)
Explosive properties:	Value not relevant for classification
Oxidizing properties:	Value not relevant for classification
9.2 Other information	No data available.

## SECTION 10: Stability and reactivity

10.1 Reactivity:	Stable under normal use conditions.
10.2 Chemical Stability:	Stable under normal use conditions.
10.3 Possibility of hazardous reactions:	Stable under normal use conditions.
10.4 Conditions to avoid:	Stable under normal use conditions.
10.5 Incompatible Materials:	Strong oxidizing substances. Strong acids. Strong bases.
10.6 Hazardous Decomposition Products:	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

## 11 TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure Inhalation: No data available.

Ingestion:	No data available.
Skin Contact:	No data available.
Eye contact:	No data available.

Acute toxicity

Oral Product:

Specified substance(s)	Not classified for acute toxicity based on available data.
Calcium Sulfonate	LD 50 (Rat): > 16,000 mg/kg
phenolic antioxidant	LD 50 (Rat): 2,930 mg/kg (OECD 401)



Dermal Product:	
Specified substance(s)	Not classified for acute toxicity based on available data.
phenolic antioxidant	LD 50 (Rat): > 5,000 mg/kg (OECD 402)
Inhalation Product:	
	Not classified for acute toxicity based on available data.
Skin Corrosion/Irritation: Product:	Based on available data, the classification criteria are not met.
Specified substance(s) Calcium Sulfonate	OECD 404 (Rabbit): Not irritant.
Serious Eye Damage/Eye Ir Product:	ritation: Based on available data, the classification criteria are not met.
Specified substance(s) Calcium Sulfonate	OECD 405 (Rabbit): Not irritant.
Respiratory or Skin Sensiti Product:	zation: Experimental data has shown that the concentration of potentially sensitizing components present in this product does not induce skin sensitization.
Specified substance(s) phenolic antioxidant	No sensitizing effect (guinea pig); OECD 406
Germ Cell Mutagenicity Product:	Based on available data, the classification criteria are not met.
Carcinogenicity Product:	Based on available data, the classification criteria are not met.
IARC: IARC Monographs	on the Evaluation of Carcinogenic Risks to Humans: No carcinogenic components identified
NTP: US. National Toxico	logy Program (NTP) Report on Carcinogens: No carcinogenic components identified
OSHASP: US. OSHA Spec	cifically Regulated Substances (29 CFR 1910.1001-1050): No carcinogenic components identified
Reproductive toxicity Product:	Based on available data, the classification criteria are not met.
Specific Target Organ Toxic Product:	<b>city - Single Exposure</b> Based on available data, the classification criteria are not met.



# Specific Target Organ Toxicity - Repeated ExposureProduct:Based on available data, the classification criteria are not met.

## Aspiration Hazard Product:

Based on available data, the classification criteria are not met.

## 12 ECOLOGICAL INFORMATION

12.1 Toxicity

Acture toxicity Product:Based on available data, the classification criteria are not met.Fish Specified substance(s) Calcium SulfonateC 50 (Fish, 96 h): 100 mg/l (OECD 203)PolyoxyalkylenC 50 (Viater flea (Simocephalus vetulus), 48 h): > 100 mg/l (OECD 202)PolyoxyalkylenE C 50 (Water Flea, 48 h): 100 mg/lPolyoxyalkyleneE C 50 (Water Flea, 48 h): 100 mg/lPolyoxyalkyleneBased on available data, the classification criteria are met.PolyoxyalkyleneBosed on available data, the classification criteria are met.PolyoxyalkyleneNot applicable for mixtures (a ko 2ko 2ko Not easily biodegradable (a ko 2ko 2ko Not easily biodegradable (a ko 2ko 2ko 2ko 2ko 2ko 2ko 2ko 2ko 2ko				
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		Not applicable for mixtures		
		The product does not contain any substances fulfilling the PBT/vPvB criteria.		



12.6 Other adverse effects:		Harmful to aquatic life with long lasting effects.	
13	Disposal considerations		
13.	1 Waste treatment methods		
	General information:	Dispose in accordance with all applicable regulations.	
	Disposal methods:	Discharge, treatment, or disposal may be subject to national, state, or local laws.	
14	TRANSPORT INFORMATIC	N	

#### DOT

Not regulated.

#### IMDG - International Maritime Dangerous Goods Code Not regulated.

Not regula

## ΙΑΤΑ

Not regulated.

#### 15 REGULATORY INFORMATION

#### **US Federal Regulations**

#### **US State Regulations**

#### **Inventory Status**

TSCA	On or in compliance with the inventory
DSL	On or in compliance with the inventory

#### 16 OTHER INFORMATION

**Revision Information:** Vertical lines in the margin indicate an amendment.

#### Wording of the H-statements in section 2 and 3

- H317 May cause an allergic skin reaction.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- H412 Harmful to aquatic life with long lasting effects.
- H413 May cause long lasting harmful effects to aquatic life.

Revision Date:

17.01.2019



**Disclaimer:** 

The data contained in this safety data sheet are based on our current knowledge and experience and are given to the best of our knowledge and belief. It characterizes the product only with regard to safety requirements for handling, transport and disposal. The data do not describe the product's properties (tech. product specification). Neither should any agreed property nor the suitability of the product for any specific technical application be deduced from the data contained in this safety data sheet. Modifications on this document are not allowed. The data are not transferable to other products. In the case of mixing the product with other products or in the case of processing, the data in this safety data sheet are not necessarily valid for the new-made material. It is the responsibility of the recipient of the product to observe federal, state and local law. Please contact us to obtain up-to-date safety data sheets. This document was issued electronically and has no signature.