

US Distributor

SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 (REACH) Article 31, Annex II as amended.

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name: ECOCOOL S-AERO G

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Coolant/ Cutting solution Uses advised against: No uses advised against identified.

1.3 Details of the supplier of the safety data sheet

Manufacturer / Supplier	Fuchs Schmierstoffe GmbH Friesenheimer Str. 19 68169 Mannheim	Fuchs Lubricants Co. 17050 Lathrop Avenue Harvey, IL 60426 (708) 333-8900
Telephone: Fax:	+49 621 3701-0 (ZENTRALE) +49 621 3701-570	(800) 255-3924 24 hrs Emergency
Contact Person: Telephone: Fax: E-mail:	Fuchs Schmierstoffe GmbH Abteilun +49 621 3701-1333 +49 621 3701-7303 produktsicherheit@fuchs-schmierstof	-
1.4 Emergency telephone number:	+49 621 3701-1333 / +49 621 3701-0	(Mo-Do 8-17, Fr 8-16)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

The product has been classified and labelled as hazardous according to regulation (EU) 1272/2008 (CLP).

Classification according to Regulation (EC) No 1272/2008 as amended.

Health Hazards		
Skin irritation	Category 2	H315: Causes skin irritation.
Serious eye irritation	Category 2	H319: Causes serious eye irritation.

Hazard summary Physical Hazards: No data available.

2.2 Label Elements



Signal Words:	Warning
Hazard Statement(s):	H315: Causes skin irritation. H319: Causes serious eye irritation.
Precautionary Statemen	t
Prevention:	P262: Do not get in eyes, on skin, or on clothing.
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.
	the sector was been to

SECTION 3: Composition/information on ingredients

3.2 Mixtures

General information:

Mixture of esters, anionic and nonionic agents and corrosion preventive agents in combination with stabilizers based on glycol/ fatty alcohols. This product is applied only as solution or emulsion in water.

Chemical name	ldentifier		REACH Registration No.	Notes
acid, ionic equilibrium with organic bases	Neutralisation product (*)	5,00 - <10,00%		
Alkanolamine	EINECS: 203-312-7	5,00 - <10,00%	01-2119488970-24	
tert. alkanolamine, ionic equilibrium with acids	Neutralisation product (*)	1,00 - <5,00%		

* 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.

(*) Neutralisation product: Equilibrium of Ionic Pairs in aequous solution according to REACH Annex V, 4.

Classification

Chemical name	Identifier	Classi	fication
acid, ionic equilibrium with organic bases	Neutralisation product (*)		Acute Tox. 4;H302, Eye Irrit. 2;H319, Skin Irrit. 2;H315
Alkanolamine	EINECS: 203-312-7	CLP:	Eye Irrit. 2;H319
tert. alkanolamine, ionic equilibrium with acids	Neutralisation product (*)		Acute Tox. 4;H302, Eye Irrit. 2;H319, Skin Irrit. 2;H315, STOT RE 2;H373

CLP: Regulation No. 1272/2008.

For the wording of the listed risk phrases refer to section 16.

SECTION 4: First aid measures



General:	Instantly remove any clothing soiled by the product.	
4.1 Description of first aid measu	Ires	
Inhalation:	Supply fresh air; consult doctor in case of symptoms.	
Eye contact:	Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.	
Skin Contact:	Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash contaminated clothing before reuse. Get medical attention.	
Ingestion:	Rinse mouth. Call a POISON CENTER/doctor if you feel unwell.	
4.2 Most important symptoms and effects, both acute and delayed:	Causes serious eye irritation. Causes skin irritation.	
4.3 Indication of any immediate medical attention and special treatment needed	Hand over this safety data sheet to the physician with the special comment "watermiscible cutting oil". Get medical attention if symptoms occur.	
SECTION 5: Firefighting measures		
5.1 Extinguishing media		
Suitable extinguishing	CO2, fire extinguishing powder or fog like water spraying. Extinguish larger	
media:	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 fightingMove container from fire area if it can be done without risk. Dispose of fire

 procedures:
 debris and contaminated fire fighting water inaccordance with official regulations. Collect contaminated fire fighting water separately. It must not enter drains.

 Special protective
 Self-contained breathing apparatus and full protective clothing must be

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 measures

6.1 Personal precautions,	Do not touch damaged containers or spilled material unless wearing
protective equipment and	appropriate protective clothing. Keep unauthorized personnel away. In case
emergency procedures:	of spills, beware of slippery floors and surfaces.



6.2 Environmental Precautions:	Prevent from spreading (e.g. by binding or oil barriers). Avoid release to the environment. Environmental manager must be informed of all major spillages. Prevent further leakage or spillage if safe to do so. Do not allow to enter drainage system, surface or ground water.
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.
	Dike for later disposal. Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk.
SECTION 7: Handling and storage	:
7.1 Precautions for safe handling:	Avoid contact with eyes. Wash hands thoroughly after handling. Do not eat, drink or smoke when working with the product. Take usual precautions when handling mineral oil products or chemical products. Avoid contact with skin. Prevent formation of aerosols. Observe good industrial hygiene

7.2 Conditions for safe storage, including any incompatibilities:
7.3 Specific end use(s): not applicable

practices. Provide adequate ventilation.

Storage Class: 10-13, combustible / non-combustible liquids and solids

SECTION 8: Exposure controls/personal protection

8.1 Control Parameters

Occupational Exposure Limits

Chemical name	type	Exposure Limit Values	Source
Glycerol - Mist.	TWA	10 mg/m3	UK. EH40 Workplace Exposure Limits (WELs) (12 2011)

8.2 Exposure controls

Appropriate engineering controls:

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. Avoid contact with eyes.
Skin protection Hand Protection:	Material: Nitrile butyl 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:	Not known.
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.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	
Physical state:	liquid
Form:	liquid
Color:	Yellow
Odor:	Characteristic
Odor Threshold:	Not applicable for mixtures
pH:	8,6 (50 g/l)
Freezing point:	Not applicable for mixtures
Boiling Point:	Value not relevant for classification
Flash Point:	not applicable
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:	1,05 g/cm3 (15 °C)
Solubility(ies)	
Solubility in Water:	Miscible with 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:	33 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.

SECTION 11: Toxicological information

Information on likely route Inhalation:	es of exposure No data available.
Ingestion:	No data available.
Skin Contact:	Causes skin irritation.
Eye contact:	Causes eye irritation.

11.1 Information on toxicological effects

Acute toxicity

Oral Product:

ATEmix: 12.716 mg/kg



Specified substance(s) acid, ionic equilibrium with organic bases	LD 50 (Rat): 1.100 mg/kg	
Alkanolamine	LD 50 (Rat): 4.680 mg/kg	
tert. alkanolamine, ionic equilibrium with acids	LD 50 (Rat): 2.000 mg/kg (OECD 423)	
Dermal Product:	Not classified for acute toxicity based on available data.	
Specified substance(s) acid, ionic equilibrium with organic bases	LD 50 (Rabbit): > 2.001 mg/kg	
Alkanolamine	LD 50 (Rabbit): 5.990 mg/kg	
Inhalation Product:	ATEmix: 300 mg/l Dusts, mists and fumes	
Skin Corrosion/Irritation: Product:	Based on available data, the classification criteria are met.	
Serious Eye Damage/Eye Irr Product:	itation: Based on available data, the classification criteria are met.	
Respiratory or Skin Sensitiz Product:	ation: Skin sensitizer: Based on available data, the classification criteria are not met. Respiratory sensitizer: Based on available data, the classification criteria are not met.	
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.	
Reproductive toxicity Product:	Based on available data, the classification criteria are not met.	
Specific Target Organ Toxicity - Single Exposure Product: Based on available data, the classification criteria are not met.		
Specific Target Organ Toxic Product:	ity - Repeated Exposure Based on available data, the classification criteria are not met.	
Aspiration Hazard Product:	Based on available data, the classification criteria are not met.	
Other Adverse Effects:	No data available.	
ssue Date: 10.06.2016		



SECTION 12: Ecological information

12.1 Toxicity

Acute toxicity Product:	Based on available data, the classification criteria are not met.
Fish Specified substance(s) acid, ionic equilibrium with organic bases	LC 50 (Fish, 96 h): 122 mg/l
Alkanolamine	LC 50 (Fish, 96 h): 1.466 mg/l
tert. alkanolamine, ionic equilibrium with acids	LC 50 (Fish, 96 h): > 101 mg/l (OECD 203)
Aquatic Invertebrates Specified substance(s) acid, ionic equilibrium with organic bases	EC 50 (Water Flea, 48 h): 68 mg/l
Alkanolamine	EC 50 (Water Flea, 48 h): 233 mg/l
tert. alkanolamine, ionic equilibrium with acids	EC 50 (Water Flea, 48 h): 163 mg/l (OECD 202)
Chronic ToxicityProduct:	Based on available data, the classification criteria are not met.
Toxicity to Aquatic Plants Specified substance(s) acid, ionic equilibrium with organic bases	EC 50 (Alga, 72 h): 81 mg/l
Alkanolamine	EC 50 (Alga, 72 h): 176 mg/l
tert. alkanolamine, ionic equilibrium with acids	EC 50 (Alga, 72 h): 12,5 mg/l (OECD 201)
12.2 Persistence and Degradabili	ty
Biodegradation Product:	Not applicable for mixtures
12.3 Bioaccumulative Potential Product:	Not applicable for mixtures
12.4 Mobility in Soil: Product:	Not applicable for mixtures
12.5 Results of PBT and vPvB	The product does not contain any substances fulfilling the PBT/vPvB criteria.

assessment:



12.6 Other Adverse Effects:	No data available.	
Water Hazard Class (WGK):	WGK 1: slightly water-endangering.	
SECTION 13: Disposal considerations		
13.1 Waste treatment methods		
General information:	Dispose in accordance with all applicable regulations.	
Disposal methods:	Do not empty into drains; dispose of this material and its container in a safe way. When storing used products, ensure that the waste categories and mixing instructions are observed.	
European Waste Codes		
	12 01 10*: synthetic machining oils	
SECTION 14: Transport information		

ADR/RID

14.1 UN Number:	_
14.2 UN Proper Shipping Name:	_
14.3 Transport Hazard Class(es)	
Class:	Non-dangerous goods
Label(s):	_
Hazard No. (ADR):	_
Tunnel restriction code:	_
14.4 Packing Group:	-
14.5 Environmental hazards:	_
14.6 Special precautions for user:	-
ADN	
14.1 UN Number:	-
14.2 UN Proper Shipping Name:	_
14.3 Transport Hazard Class(es) Class:	Non-dangerous goods
14.3 Transport Hazard Class(es)	Non-dangerous goods –
14.3 Transport Hazard Class(es) Class:	Non-dangerous goods – –
14.3 Transport Hazard Class(es) Class: Label(s):	Non-dangerous goods _ _ _
14.3 Transport Hazard Class(es) Class: Label(s): 14.3 Packing Group:	Non-dangerous goods _ _ _ _



IMDG 14.1 UN Number: 14.2 UN Proper Shipping Name: 14.3 Transport Hazard Class(es) Class: Label(s): EmS No.:	– – Non-dangerous goods –
14.3 Packing Group: 14.5 Environmental hazards: 14.6 Special precautions for user:	- - -
IATA 14.1 UN Number: 14.2 Proper Shipping Name: 14.3 Transport Hazard Class(es): Class: Label(s): 14.4 Decking Croup:	– – Non-dangerous goods –
14.4 Packing Group: 14.5 Environmental hazards: 14.6 Special precautions for user:	

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: not applicable.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

EU Regulations

Regulation (EC) No. 2037/2000 Substances that deplete the ozone layer: none

Regulation (EC) No. 850/2004 on persistent organic pollutants: none

15.2 Chemical safety No Chemical Safety Assessment has been carried out. **assessment:**

SECTION 16: Other information

Revision Information: Vertical lines in the margin indicate an amendment. Wording of the H-statements in section 2 and 3 Harmful if swallowed. H302 Causes skin irritation. H315 Causes serious eye irritation. H319 May cause damage to organs through prolonged or repeated H373 exposure. Other information: The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies. The classification results from the Conventional Method mentioned in regulation EU 1272/2008 (CLP). **Revision Date:** 08.07.2016 Issue Date: 10.06.2016



Disclaimer:

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