

1. Product and Company Identification

Identity (as used on label & list): **Anti-Foam #550**
 Product Description: Base Oils and Wax Emulsions
 Intended Use: Defoamer

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2. Hazards Identification**Classification of the substance or mixture**

Classification according to European directive on classification of hazardous preparations 1999/45/EC, or Annex VI to 67/548/EEC.

Label Elements

EU Symbol(s) Not dangerous
R -phrase(s) This product does not require any hazard labelling.
S -phrase(s) This product does not require any hazard labelling.

Other hazards

Results of PBT and vPvB assessment
PBT: Not applicable
vPvB: Not applicable

3. Composition/ Information on Ingredients

Chemical nature of product Petroleum oil-based mixture.

Hazardous components

Components	CAS-No.	EC No.	REACH Reg-No.	GHS(*)	Classification	Weight %
5-Decyne-4,7-diol, 2,4,7,9-tetramethyl-	126-86-3	204-809-1	--	Eye Irrit. 2 (H319) Aquatic Chronic 3 (H412)	Xi;R36 R52-53	2.5-5.0
Ethylene glycol	07-21-1	07-21-1	--	Acute Tox. 4 (H302)	Xn;R22	0.1-1.0

(*)GHS Reference CLP (1272/2008)

Component	Notes
Ethylene glycol	-

The classification corresponds to the current EU listing, but is enhanced by specialized literature data and the Company's own information

For the full text of the R phrases mentioned in this Section, see Section 16.

4. First Aid Measures**Description of first aid measures**

Eye Contact:	Rinse thoroughly with plenty of water, also under the eyelids. If symptoms persist, call a physician.
Skin Contact:	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes.
Ingestion:	Gently wipe or rinse the inside of the mouth with water.
Inhalation:	Move to fresh air.

Most important symptoms and effects, both acute and delayed

Redness. Irritation

Indication of any immediate medical attention and special treatment needed

Immediate medical attention is not required

Notes to Physician Treat symptomatically

5. Fire Fighting Measures

Extinguishing Media:

In case of fire, use water/water spray/water jet/carbon dioxide/sand/foam/alcohol resistant foam/chemical powder for extinction. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Cool closed containers exposed to fire with water spray.

Specific hazards arising from the substance or mixture

To avoid thermal decomposition, do not overheat (>150C). Hazardous decomposition products formed under fire conditions. In case of fire hazardous decomposition products may be produced such as. Formaldehyde.

Advice for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

Environmental precautions

Avoid release to the environment. Do not flush into surface water or sanitary sewer system.

.Methods and material for containment and cleaning up

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

Reference to other sections

Refer to protective measures listed in Sections 7 and 8.

7. Handling and Storage

Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment.

Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a cool, well-ventilated place.

Specific end use(s)

See Section 1 for intended use of product.

8. Exposure Controls/ Personal Protection**Control parameters****Engineering Controls**

Ensure adequate ventilation, especially in confined areas.

Component	EU	United Kingdom	France	Spain	Germany
Polyalkylene glycol					MAK: 1000 mg/m ³ Peak: 8000 mg/m ³
Ethylene glycol	TWA: 20 ppm TWA: 52 mg/m ³ STEL: 104 mg/m ³ STEL: 40 ppm Skin	TWA: 10 mg/m ³ STEL: 104 mg/m ³ TWA: 52 mg/m ³ Skin	VLE: 50 ppm VLE: 125 mg/m ³	Skin VLA-EC: 40 ppm VLAEC; 104 mg/m ³ VLA-EC VLA-ED: 20 ppm VLAED; 52 mg/m ³ VLA-ED	MAK: 10 ppm MAK: 26 mg/m ³ Peak: 20 ppm Peak: 52 mg/m ³

Component	Italy	Portugal	Netherlands	Finland	Austria
Polyalkylene glycol			MAC: 1000 mg/m ³ MAC		STEL: 4000 mg/m ³ STEL (inhalable fraction) MAK: 1000 mg/m ³ MAK (inhalable fraction)
Ethylene glycol	TWA: 20 ppm TWA: 52 mg/m ³	Ceiling: 100 mg/m ³	Skin STEL: 40 ppm STEL; 104 mg/m ³ STEL MAC: 20 ppm MAC (fume); 52 mg/m ³ MAC (fume); 10 mg/m ³ MAC (droplets)	TWA: 20 ppm TWA: 50 mg/m ³ STEL: 100 mg/m ³ STEL: 40 ppm Skin	Skin STEL: 20 ppm STEL (5 min); 52 mg/m ³ STEL (5 min) MAK: 10 ppm MAK; 26 mg/m ³ MAK

Component	Switzerland	Poland	Norway	Ireland	Denmark
Polyalkylene glycol	MAK: 1000 ppm MAK (MW 200-600)				STEL: 4000 mg/m ³ STEL (inhalable fraction) MAK: 1000 mg/m ³ MAK (inhalable fraction)
Ethylene glycol	Skin STEL: 20 ppm STEL; 52 mg/m ³ STEL MAK: 10 ppm MAK; 26 mg/m ³ MAK	NDSCh: 50 mg/m ³ NDS: 15 mg/m ³	OEL: 10 ppm Skin Ceiling: 25 ppm	TWA: 10 mg/m ³ TWA: 20 ppm TWA: 52 mg/m ³ TWA: 60 mg/m ³ STEL: 104 mg/m ³ STEL: 125 mg/m ³ STEL: 40 ppm Skin	TWA: 10 mg/m ³ TWA: 10 ppm TWA: 26 mg/m ³ Skin

Exposure controls**Personal Protective Equipment:****Respiratory Protection**

In case of insufficient ventilation wear suitable respiratory equipment. Respirator with filter for organic vapor.

Eye Protection:

Tightly fitting safety goggles.

Skin Protection:

Long sleeved clothing.

General Hygiene Considerations

Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Avoid contact with skin, eyes and clothing. Material can create slippery conditions

Environmental exposure controls

No information available.

9. Physical and Chemical Properties

Physical State	Liquid
Appearance, Color	Translucent, Off-white
Odor	Slight
Odor Threshold	No information available
pH	8.5 (50 % soln.)
Flash Point	>100°C
Autoignition temperature	No information available
Decomposition temperature	No information available
Boiling Point/Range	>100 °C
Melting Point/Range	No information available
Flammable Limits	No information available
Explosive Properties	No information available
Specific Gravity (g/cm ³)	1.07
Solubility (in water)	Dispersible
Solubility in other solvents	No information available
Evaporation Rate	No information available
Vapor Pressure, 20°C / 68°F	No information available
Oxidizing Properties	Not an oxidizer
Vapor Density	No information available
Density	1.07 kg/L; 8.9 #/gal
Solid content (5)	<69
VOC Content	No information available
Viscosity	<4800 cps @25°C
Partition Coefficient (n-octanol/water)	No information available
Other information	None

10. Stability and Reactivity

Reactivity	Stable under normal conditions
Chemical Stability:	Stable under recommended storage conditions
Possibility of Hazardous Reactions	No dangerous reaction known under conditions of normal use. Hazardous polymerization does not occur
Conditions to Avoid:	Keep at temperatures above 0°C.
Incompatible Materials	No materials to be especially mentioned
Hazardous Decomposition Products:	Thermal decomposition can lead to release of irritating gases and vapors. Carbon oxides. Silicon dioxide. Formaldehyde

11. Toxicological Information

Information on toxicological effects

Acute Toxicity**Product information**

Information given is based on data on the components and the toxicology of similar products

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Polyalkylene glycol	20 mg/kg (Rat)	>20 mg/kg (Rabbit)	>13 mg/kg (Rat)

Organosiloxane polymer	>5000 mg/kg (Rat)	>2000 mg/kg (Rabbit)	-
Organosiloxane	17 g/kg (Rat)	2 g/kg (Rabbit)	-
5-Decyne-4,7-diol, 2,4,7,9-tetramethyl	4600 mg/kg (Rat)	>2000 mg/kg (Rabbit)	>20 mg/L,(Rat)
Treated silica	6350 mg/kg (Rat)	>2000 mg/kg (Rat)	-
Ethylene glycol	4000 mg/kg (Rat)	9530 µL/kg (Rabbit)	-

Chronic Toxicity

Carcinogenicity:	There are no known carcinogenic chemicals in this product (IARC, ACGIH, US OSHA, US NTP).
Irritation	Eye irritation.
Sensitization	No known effect
Neurological Effects	No information available
Mutagenic Effects	No information available
Reproductive Effects	No information available
Developmental Effects	No information available
Target Organ Effects	No information available
Organ Adverse Effects	None known

12. Ecological Information**Ecotoxicity effects:**

Discharge into the environment must be avoided. Aquatic toxicity is unlikely due to low solubility.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Polyalkylene glycol	-	LC50 (96 h): > 73,000 mg/l (Fathead minnow (Pimephales promelas)) LC50: >500 mg/L (Golden orfe)	EC50 = 100,000 mg/L 15 min	LC50: : > 10,000 mg/l (Daphnia magna)
Organosiloxane polymer	-	-	-	EC50: 220-520 mg/L
Organosiloxane	-	-	-	-
5-Decyne-4,7-diol, 2,4,7,9- tetramethyl	EC50 (72h): 82 mg/l (Selenastrum capricornutum) EC50 (72h): 112 mg/l (Selenastrum costatum)	LC50 (24 h) : 42 mg/l Carp, (Cyprinus carpio) LC50 (96 h) : 36 mg/l Fathead minnow (Pimephales promelas) LC50 (96 h) : 42 mg/l Carp (Cyprinus carpio) LC50 (96 h) : 43 mg/l Species: Turbot(Scophthalmus maximus)		EC50 (48 h): 91 mg/l (Daphnia magna) LC50 (48 h): 166 mg/l (Daphnia tonsa)
Treated silica	-	LC50: >10000 mg/l, 96h	-	EC50: >10000 mg/l, 24h
Ethylene glycol	-	LC50 (96 h):18500 mg/l (Rainbow trout) LD50 (96 h): >5,000 mg (Carassius auratus (goldfish)) LC50 (96 h) : 8050 mg/l (Pimephales promelas)	EC50 = 620.0 mg/L 30 min	LC50 = 46300 mg/L 48 h

Persistence and Degradability
Bioaccumulative Potential

No information available
No information available

Mobility in soil No information available

Results of PBT and vPvB assessment No information available

Other adverse effects

Component	log Pow
Ethylene glycol	-1.93

13. Disposal Considerations

Waste treatment methods

Waste from Residues / Unused Products

Can be incinerated, when in compliance with local regulations

Contaminated Packaging Empty containers should be taken for local recycling, recovery or waste disposal.

EWC waste disposal No No information available

Other Information According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.

14. Transport Information

ADR/RID Not regulated

UN-Number Not applicable

UN Proper Shipping Name Not applicable

Transport Hazard class Not applicable

Packing Group Not applicable

Environmental hazards Not applicable

Special precautions for user Not applicable

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable

ICAO/IATA Not regulated

IMDG/IMO Not regulated

15. Regulatory Information

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

WGK Classification Water endangering class = 1 (self estimation)

Chemical safety assessment A chemical safety assessment has not been performed

International Inventories

All of the components in the product are on or exempt from the following Inventory lists

Canada DSL Complies

China IECSC Complies

EU EINECS/ELINCS Complies

Japan ENCS Complies

Korea KECL Complies

New Zealand NZIoCS Complies

Philippines PICCS Complies

Australia AICS Complies

US TSCA Complies

16. OTHER INFORMATION

Text of R phrases mentioned in Section 3

R22 - Harmful if swallowed

R36 - Irritating to eyes

R52 - Harmful to aquatic organisms

R53 - May cause long-term adverse effects in the aquatic environment

Full text of H-Statements referred to under sections 2 and 3

H302 - Harmful if swallowed

H319 - Causes serious eye irritation

H412 - Harmful to aquatic life with long lasting effects

The information on this SDS reflects the latest information that we have on hazards, properties, and handling of this product under recommended conditions of use. This company believes this information to be accurate and reliable however, the accuracy and completeness is not guaranteed.