

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

1.1. Product identifier

Product form	: Mixture
Trade name	: STAINLESS STEEL MINERAL THREADING OIL
Product code	: 110505 and other packaging
Type of product	: Use in lubricants
Product group	: Trade product

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

1.2.1. Relevant identified uses

Main use category	: Industrial use
Function or use category	: Lubricants and additives

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

VIRAX SAS

39, quai Marne - CS 40197
51206 EPERNAY Cedex

T +33 (0)3 26 59 56 56 - F +33 (0)3 26 59 56 60

hse@virax.com

1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number	Comment
United Kingdom	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER London	+44 20 7188 7188	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Hazardous to the aquatic environment — Chronic Hazard, Category 3 H412

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

Harmful to aquatic life with long lasting effects.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Signal word (CLP)	: -
Hazard statements (CLP)	: H412 - Harmful to aquatic life with long lasting effects.
Precautionary statements (CLP)	: P273 - Avoid release to the environment. P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil— unspecified; [A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil of at least 100 SUS at 100°F	(CAS-No.) 64742-54-7 (EC-No.) 265-157-1 (EC Index-No.) 649-467-00-8	25 - 50	Asp. Tox. 1, H304

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(19cSt at 40°C). It contains a relatively large proportion of saturated hydrocarbons.] (Note L)			
Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates	(CAS-No.) 80939-62-4 (EC-No.) 279-632-6 (REACH-no) 01-2119976322-36	0.25 - 2.5	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Chronic 2, H411
Phenol, isopropylated, phosphate (3:1) [Triphenyl phosphate >5%]	(CAS-No.) 68937-41-7 (EC-No.) 273-066-3 (REACH-no) 01-2119535109-41	0.25 - 1	Repr. 2, H361 STOT RE 2, H373 Aquatic Chronic 1, H410
2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol	(CAS-No.) 95-38-5 (EC-No.) 202-414-9 (REACH-no) 01-2119777867-13	0.25 - 1	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	(CAS-No.) 68584-23-6 (EC-No.) 271-529-4 (REACH-no) 01-2119492627-25	0.1 - 1	Skin Sens. 1B, H317
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts	(CAS-No.) 70024-69-0 (EC-No.) 274-263-7 (REACH-no) 01-2119492616-28	0.1 - 1	Skin Sens. 1B, H317
Sulfonic acids, petroleum, calcium salts	(CAS-No.) 61789-86-4 (EC-No.) 263-093-9 (REACH-no) 01-2119488992-18	0.1 - 1	Skin Sens. 1B, H317

Specific concentration limits:

Name	Product identifier	Specific concentration limits
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	(CAS-No.) 68584-23-6 (EC-No.) 271-529-4 (REACH-no) 01-2119492627-25	(10 =<C <= 100) Skin Sens. 1B, H317
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts	(CAS-No.) 70024-69-0 (EC-No.) 274-263-7 (REACH-no) 01-2119492616-28	(10 =<C <= 100) Skin Sens. 1B, H317
Sulfonic acids, petroleum, calcium salts	(CAS-No.) 61789-86-4 (EC-No.) 263-093-9 (REACH-no) 01-2119488992-18	(10 =<C <= 100) Skin Sens. 1B, H317

Note L : The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3 % DMSO extract as measured by IP 346 'Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions — Dimethyl sulphoxide extraction refractive index method', Institute of Petroleum, London. This note applies only to certain complex oil-derived substances in Part 3.

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general

: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). Immediately remove contaminated or damp clothing.

First-aid measures after inhalation

: Remove person to fresh air and keep comfortable for breathing. Assure fresh air breathing. Allow the victim to rest.

First-aid measures after skin contact

: Rinse skin with water/shower. Take off immediately all contaminated clothing. Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.

First-aid measures after eye contact

: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion

: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Call a poison center or a doctor if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects

: Not expected to present a significant hazard under anticipated conditions of normal use.

Symptoms/effects after ingestion

: Can occur: gastrointestinal disturbance.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

: Foam. Dry powder. Carbon dioxide. Water spray.

Unsuitable extinguishing media

: Do not use water jet.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire

: Toxic fumes may be released. Carbon dioxide. Carbon monoxide. Nitrogen oxides.

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5.3. Advice for firefighters

Firefighting instructions

: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.

Protection during firefighting

: Do not enter fire area without proper protective equipment, including respiratory protection. Self-contained breathing apparatus. Do not attempt to take action without suitable protective equipment. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures

: Remove ignition sources. If spilled, may cause the floor to be slippery.

6.1.1. For non-emergency personnel

Emergency procedures

: Ventilate spillage area. Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment

: Do not attempt to take action without suitable protective equipment. Equip cleanup crew with proper protection. For further information refer to section 8: "Exposure controls/personal protection".

Emergency procedures

: Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up

: This material and its container must be disposed of in a safe way, and as per local legislation. Store away from other materials. Take up liquid spill into absorbent material. On land, sweep or shovel into suitable containers.

Other information

: Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection. For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling

: Ensure good ventilation of the work station. Wear personal protective equipment. Avoid contact with the skin and the eyes. PREVENT GENERATION OF MISTS. Provide good ventilation in process area to prevent formation of vapour.

Hygiene measures

: Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions

: Store in original container. Store tightly closed in a dry, cool and well-ventilated place. Keep container closed when not in use. Keep away from food, drink and animal feedingstuffs. Store in a well-ventilated place. Keep cool.

Incompatible products

: Oxidizing agent.

Incompatible materials

: Sources of ignition. Direct sunlight.

Information on mixed storage

: Do not store near oxidizing agents. Combustible liquids.

Storage area

: Keep out of frost.

7.3. Specific end use(s)

See Heading 1.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates (80939-62-4)

DNEL/DMEL (Workers)

Long-term - systemic effects, dermal	0.03 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	0.2 mg/m ³

DNEL/DMEL (General population)

Long-term - systemic effects, oral	0.01 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	0.05 mg/m ³
Long-term - systemic effects, dermal	0.01 mg/kg bodyweight/day

PNEC (Water)

PNEC aqua (freshwater)	0.055 mg/l
PNEC aqua (marine water)	0.0055 mg/l

PNEC (Sediment)

PNEC sediment (freshwater)	239.64 mg/kg dwt
PNEC sediment (marine water)	23.96 mg/kg dwt

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PNEC (STP)	
PNEC sewage treatment plant	1 mg/l
Phenol, isopropylated, phosphate (3:1) [Triphenyl phosphate >5%] (68937-41-7)	
DNEL/DMEL (Workers)	
Acute - systemic effects, dermal	2000 mg/kg bodyweight/day
Acute - systemic effects, inhalation	700 mg/m ³
Long-term - systemic effects, dermal	0.417 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	0.145 mg/m ³
DNEL/DMEL (General population)	
Acute - systemic effects, dermal	100 mg/kg bodyweight
Acute - systemic effects, inhalation	350 mg/m ³
Long-term - systemic effects, oral	0.04 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	0.145 mg/m ³
Long-term - systemic effects, dermal	0.208 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	0.00031 mg/l
PNEC aqua (marine water)	0.000031 mg/l
PNEC (STP)	
PNEC sewage treatment plant	100 mg/l
Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil— unspecified; [A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil of at least 100 SUS at 100 °F (19cSt at 40 °C). It contains a relatively large proportion of saturated hydrocarbons.] (64742-54-7)	
DNEL/DMEL (Workers)	
Long-term - local effects, inhalation	5.4 mg/m ³
2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol (95-38-5)	
DNEL/DMEL (Workers)	
Acute - systemic effects, dermal	2 mg/kg bodyweight/day
Acute - systemic effects, inhalation	14 mg/m ³
Long-term - systemic effects, dermal	0.06 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	0.46 mg/m ³
PNEC (Water)	
PNEC aqua (freshwater)	0.00003 mg/l
PNEC aqua (marine water)	0.000003 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	0.376 mg/kg dwt
PNEC sediment (marine water)	0.0376 mg/kg dwt
PNEC (Soil)	
PNEC soil	0.075 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	0.27 mg/l
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts (70024-69-0)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	3.33 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	11.75 mg/m ³
DNEL/DMEL (General population)	
Long-term - systemic effects, oral	0.833 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	2.9 mg/m ³
Long-term - systemic effects, dermal	1.667 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	1 mg/l
PNEC aqua (marine water)	1 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	> 2260000 mg/kg dwt
PNEC sediment (marine water)	> 2260000 mg/kg dwt

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PNEC (Soil)

PNEC soil	2710000 mg/kg dw
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PNEC (STP)

PNEC sewage treatment plant	1000 mg/l
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8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station. The usual precautionary measures are to be adhered to when handling chemicals.

Personal protective equipment:

Avoid all unnecessary exposure. Protective goggles.

Materials for protective clothing:

Wear suitable protective clothing. Where there is a possibility of leakage, wear the secure non-slip shoes. Impermeable protective equipment

Hand protection:

Chemical resistant gloves (according to European standard NF EN 374 or equivalent). Butyl rubber gloves. Chloroprene rubber. Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer. Time of penetration is to be checked with the glove producer. Please follow the instructions related to the permeability and the penetration time provided by the manufacturer

Eye protection:

Chemical goggles or safety glasses. Use eye protection according to EN 166, designed to protect against liquid splashes.

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment. Breathing apparatus with filter. EN 14387. Self contained breathing apparatus, in case of emergency

Personal protective equipment symbol(s):



Environmental exposure controls:

Avoid release to the environment.

Other information:

Do not eat, drink or smoke during use. Always wash hands after handling the product. Keep away from food, drink and animal feedingstuffs.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Oily.
Colour	: pale.
Odour	: characteristic.
Odour threshold	: No data available
pH	: Not determined
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: > 200 °C
Auto-ignition temperature	: The product does not ignite spontaneously.
Decomposition temperature	: Not determined
Flammability (solid, gas)	: Not applicable
Vapour pressure	: 0.1 hPa
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 0.89 g/cm³ 20 °C
Solubility	: Water: Not or little miscible
Log Pow	: No data available
Viscosity, kinematic	: 32 mm²/s 40 °C
Viscosity, dynamic	: No data available
Explosive properties	: Product is not explosive.

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Oxidising properties : No data available

Explosive limits : No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable at ambient temperature and under normal conditions of use.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Oxidizing agents and reducing agents.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified (Based on available data, the classification criteria are not met)

Acute toxicity (dermal) : Not classified (Based on available data, the classification criteria are not met)

Acute toxicity (inhalation) : Not classified (Based on available data, the classification criteria are not met)

Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates (80939-62-4)

LD50 oral rat > 5000 mg/kg (OECD 401 method)

LD50 dermal rat > 2000 mg/kg (OECD 402 method)

Phenol, isopropylated, phosphate (3:1) [Triphenyl phosphate >5%] (68937-41-7)

LD50 oral rat > 5000 mg/kg

LD50 dermal rabbit > 10000 mg/kg

Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil— unspecified; [A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil of at least 100 SUS at 100 °F (19cSt at 40 °C). It contains a relatively large proportion of saturated hydrocarbons.] (64742-54-7)

LD50 oral rat > 5000 mg/kg

LD50 dermal rabbit > 5000 mg/kg

LC50 inhalation rat (mg/l) > 5000 mg/l/4h

2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol (95-38-5)

LD50 oral rat 1265 mg/kg (OECD 401 method)

LD50 dermal rabbit > 2000 mg/kg

Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts (68584-23-6)

LD50 oral rat > 5000 mg/kg bodyweight

LD50 dermal rabbit > 5000 mg/kg bodyweight

Skin corrosion/irritation : Not classified (Based on available data, the classification criteria are not met)
pH: Not determined

Serious eye damage/irritation : Not classified (Based on available data, the classification criteria are not met)
pH: Not determined

Respiratory or skin sensitisation : Not classified (Based on available data, the classification criteria are not met)

Germ cell mutagenicity : Not classified (Based on available data, the classification criteria are not met)

Carcinogenicity : Not classified

Additional information : Based on available data, the classification criteria are not met

Reproductive toxicity : Not classified

Additional information : Based on available data, the classification criteria are not met

STOT-single exposure : Not classified

Additional information : Based on available data, the classification criteria are not met

STOT-repeated exposure : Not classified

Additional information : Based on available data, the classification criteria are not met

Aspiration hazard : Not classified

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Additional information : Based on available data, the classification criteria are not met

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Viscosity, kinematic 32 mm²/s 40 °C

Potential adverse human health effects and symptoms : Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Prevent soil and water pollution. Harmful to aquatic life with long lasting effects.
Ecology - water : The product should not be deposited where it can affect ground or surface waters.
Acute aquatic toxicity : Not classified (Based on available data, the classification criteria are not met)
Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

Amines, C11-14-branched alkyl, monoheptyl and diheptyl phosphates (80939-62-4)

LC50 fish 1	5.5 mg/l (OECD 203 method)
EC50 Daphnia 1	1.2 mg/l (OECD 202 method)
EC50 72h algae (1)	> 10 mg/l (OECD 201 method)

Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil— unspecified; [A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil of at least 100 SUS at 100 °F (19cSt at 40 °C). It contains a relatively large proportion of saturated hydrocarbons.] (64742-54-7)

LC50 fish 1	> 100 mg/l
EC50 Daphnia 1	> 10000 mg/l
EC50 72h algae (1)	> 100 mg/l
NOEC chronic crustacea	> 10 mg/l

2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol (95-38-5)

LC50 fish 1	0.3 mg/l (OECD 203 method)
EC50 Daphnia 1	0.163 mg/l (OECD 202 method)
EC50 72h algae (1)	0.03 mg/l (OECD 201 method)

Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts (68584-23-6)

LC50 fish 1	1.2 mg/l
EC50 Daphnia 1	1000 mg/l
EC50 72h algae (1)	> 1000 mg/l
NOEC chronic algae	> 1000 mg/l

12.2. Persistence and degradability

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Persistence and degradability : Not established.

12.3. Bioaccumulative potential

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Bioaccumulative potential : Not established.

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

Additional information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste) : Disposal must be done according to official regulations.
Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions. Do not dispose of with domestic waste.
Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Dispose of this material and its container at hazardous or special waste collection point.
Ecology - waste materials : Avoid release to the environment.
European List of Waste (LoW) code : Code Waste to be completed according to the use and the list of Decision 2000/352 / EC
12 01 07* - mineral-based machining oils free of halogens (except emulsions and solutions)
12 03 01* - aqueous washing liquids

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

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ADR	IMDG	IATA	ADN	RID
14.1. UN number				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.2. UN proper shipping name				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.3. Transport hazard class(es)				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.4. Packing group				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.5. Environmental hazards				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
No supplementary information available				

14.6. Special precautions for user

Overland transport

Not regulated

Transport by sea

Not regulated

Air transport

Not regulated

Inland waterway transport

Not regulated

Rail transport

Not regulated

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not established.

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:	
3(c) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1	STAINLESS STEEL MINERAL THREADING OIL - Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates - Phenol, isopropylated, phosphate (3:1) [Triphenyl phosphate >5%] - 2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol
28. Substances which are classified as carcinogen category 1A or 1B in Part 3 of Annex VI to Regulation (EC) No 1272/2008 and are listed in Appendix 1 or Appendix 2, respectively.	Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil— unspecified; [A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil of at least 100 SUS at 100 °F (19cSt at 40 °C). It contains a relatively large proportion of saturated hydrocarbons.]
3. Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008	Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates - Phenol, isopropylated, phosphate (3:1) [Triphenyl phosphate >5%] - Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil— unspecified; [A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil of at least 100 SUS at 100 °F (19cSt at 40 °C). It contains a relatively large proportion of saturated hydrocarbons.] - 2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol
3(b) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10	Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates - Phenol, isopropylated, phosphate (3:1) [Triphenyl phosphate >5%] - Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil— unspecified; [A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil of at least 100 SUS at 100 °F (19cSt at 40 °C). It contains a relatively large proportion of saturated hydrocarbons.] - 2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 concerning the export and import of hazardous chemicals.

Substance(s) are not subject to Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC.

Directive 2012/18/EU (SEVESO III)

Seveso Additional information : Not applicable

15.1.2. National regulations

Ensure all national/local regulations are observed

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15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes:			
Section	Changed item	Change	Comments
	Flammability (solid, gas)	Added	
	Seveso Additional information	Added	
1.2	Use of the substance/mixture	Modified	
2.1	Adverse physicochemical, human health and environmental effects	Added	
2.1	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Added	
2.2	Precautionary statements (CLP)	Added	
2.2	Hazard statements (CLP)	Added	
2.2	EUH-statements	Modified	
3	Composition/information on ingredients	Modified	
4.1	First-aid measures after eye contact	Modified	
4.1	First-aid measures after ingestion	Modified	
4.1	First-aid measures after inhalation	Modified	
4.1	First-aid measures general	Modified	
4.2	Symptoms/effects after skin contact	Added	
4.3	Other medical advice or treatment	Added	
5.1	Unsuitable extinguishing media	Modified	
5.2	Hazardous decomposition products in case of fire	Added	
5.3	Protection during firefighting	Modified	
6.1	General measures	Modified	
6.1	Protective equipment	Modified	
6.1	Emergency procedures	Modified	
6.3	Other information	Added	
6.3	Methods for cleaning up	Modified	
6.4	Reference to other sections (8, 13)	Modified	
7.1	Hygiene measures	Modified	
7.1	Precautions for safe handling	Modified	
7.2	Storage conditions	Modified	
7.2	Prohibitions on mixed storage	Added	
8.1		Added	
8.2	Eye protection	Modified	
8.2	Hand protection	Modified	
8.2	Environmental exposure controls	Added	
8.2	Appropriate engineering controls	Added	
8.2	Materials for protective clothing	Modified	
9.1	Density	Modified	
9.1	Flash point	Modified	
9.1	Melting point	Added	
9.1	Vapour pressure	Added	
9.1	Explosive limits (vol %)	Removed	
10.1	Reactivity	Modified	
10.3	Possibility of hazardous reactions	Modified	
10.6	Hazardous decomposition products	Modified	
11.1	Reason for no classification	Added	
11.1	Additional information	Modified	
12.1	Ecology - general	Modified	
13.1	Waste treatment methods	Added	
13.1	European List of Waste (LoW) code	Added	
15.1	REACH Annex XVII	Modified	
16	Data sources	Modified	
16	Abbreviations and acronyms	Modified	

STAINLESS STEEL MINERAL THREADING OIL

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Abbreviations and acronyms:		
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006	
SDS	Safety Data Sheet	
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008	
DSD	Dangerous Substances Directive 67/548/EEC	
DPD	Dangerous Preparations Directive 1999/45/EC	
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways	
IATA	International Air Transport Association	
IMDG	International Maritime Dangerous Goods	
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail	
BCF	Bioconcentration factor	
TLM	Median Tolerance Limit	
ATE	Acute Toxicity Estimate	
EC50	Median effective concentration	
LC50	Median lethal concentration	
LD50	Median lethal dose	
PNEC	Predicted No-Effect Concentration	
OECD	Organisation for Economic Co-operation and Development	
PBT	Persistent Bioaccumulative Toxic	
vPvB	Very Persistent and Very Bioaccumulative	
NOAEC	No-Observed Adverse Effect Concentration	
NOEC	No-Observed Effect Concentration	
IARC	International Agency for Research on Cancer	
Data sources	: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 . 11 ATP Inserted / Updated.	
Training advice	: Normal use of this product shall imply use in accordance with the instructions on the packaging.	
Other information	: Ensure all national/local regulations are observed. DISCLAIMER OF LIABILITY The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.	

Full text of H- and EUH-statements:		
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4	
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1	
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1	
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2	
Asp. Tox. 1	Aspiration hazard, Category 1	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
Repr. 2	Reproductive toxicity, Category 2	
Skin Corr. 1B	Skin corrosion/irritation, Category 1B	
Skin Irrit. 2	Skin corrosion/irritation, Category 2	
Skin Sens. 1B	Skin sensitisation, category 1B	
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2	
H302	Harmful if swallowed.	
H304	May be fatal if swallowed and enters airways.	
H314	Causes severe skin burns and eye damage.	
H315	Causes skin irritation.	
H317	May cause an allergic skin reaction.	
H319	Causes serious eye irritation.	
H361	Suspected of damaging fertility or the unborn child.	
H373	May cause damage to organs through prolonged or repeated exposure.	
H400	Very toxic to aquatic life.	
H410	Very toxic to aquatic life with long lasting effects.	
H411	Toxic to aquatic life with long lasting effects.	
H412	Harmful to aquatic life with long lasting effects.	

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:		
Aquatic Chronic 3	H412	Calculation method

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.