

SECTION 1: Chemical Product and Company Identification

1.1. Product identifier

Product form : Mix
Commercial name : MINERAL CUTTING OIL
Product code : 110101/ 110105 / 110120
Type of product : Lubricants
Group of products : Commercial product

1.2. Uses of the substance or mix identified as relevant and uses recommended against

1.2.1. Uses identified as relevant

Main category of use : Use by consumers, Industrial use
Function or category of use : Lubricants and additives

1.2.2. Uses recommended against

No additional information available

1.3. Material safety data sheet issued by

VIRAX SAS

39, quai Marne
CS 40197
51206 EPERNAY Cedex

Tel: +33 (0)3 26 59 56 56 - Fax: +33 (0)3 26 59 56 60

Contact: hse@virax.com

1.4. Emergency telephone

Country	Organisation/Company	Address	Emergency telephone	Comment
France	ORFILA/INRS (24h/24)		+33 1 45 42 59 59	

SECTION 2: Hazards Identification

2.1. Chemical classification

Classification as per regulation (CE) No. 1272/2008 [CLP]

Harmful to aquatic life with chronic effects, Category 3 H412

Full text of H mentions: see section 16

2.2. Labelling

Labelling as per the regulation (CE) No. 1272/2008 [CLP]

Warning mention (CLP) : -
Hazard mentions (CLP) : H412 – Harmful to aquatic life with long lasting effects
Cautionary advice (CLP) : P102 - Keep out of reach of children
P273 - Avoid release to the environment
P501 - Dispose of contents /container to a collection centre for hazardous or special waste, in compliance with local, regional, national and/or international regulations

Safety cap for children : No

Hazard indications detectable by touch : No

2.3. Other hazards

Adverse physical and chemical effects for human health and the environment : Harmful to aquatic life with long lasting effects.

SECTION 3: Composition/Information on Ingredients

3.2 Mix

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Hazardous ingredients	Product identifier	%	Classification as per regulation (CE) No. 1272/2008 [CLP]
Phenol, isopropylated, phosphate (3: 1) [Triphenyl phosphate > 5%]	(CAS No.) 68937-41-7 (CE number) 273-066-3	0.1 - 2.5	Repr. 2, H361 STOT RE 2, H373 Aquatic Chronic 2, H411
Triphenyl phosphate	(CAS No.) 115-86-6 (CE number) 204-112-2 (REACH No.) 01-2119457432-41	0.25 - 1	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts	(CAS No.) 68649-42-3 (CE number) 272-028-3	0.1 - 1	Skin Irrit. 2, H315 Aquatic Chronic 2,

Complete text of the H phrases: see section 16

SECTION 4: First Aid Measures

4.1. Description of first aid

- General first aid : Consult a physician in case of malaise.
- After inhalation : Transport the person outdoors and maintain him/her in a position allowing comfortable breathing. Have the person breath fresh air.
- After skin contact : Remove immediately any contaminated clothing. Rinse with water/have a shower.
- After eye contact : Immediately and thoroughly rinse with water while maintaining the eyelids wide open (15 minutes at least). If the eye irritation persists, consult a specialist physician.
- After ingestion : Call an antipoison centre or a physician in case of malaise.

4.2. Main symptoms and effects, acute and differed

- Symptoms/lesions : May occur: gastrointestinal troubles.

4.3. Indication of any immediate medical care and particular treatments required

Symptomatic treatment.

SECTION 5: Fire Fighting Measures

5.1. Extinguishing means

- Appropriate extinguishing means : Sprayed water. Carbon dioxide. Spray major fires with water or alcohol resistant foam.
- Inappropriate extinguishing agents : Do not use a water jet.

5.2. Particular hazards resulting from the substance or mix

- Hazardous breakdown products in case of fire : Potential generation of toxic fumes.

5.3. Advice to fire fighters

- Protection in case of fire : Do not intervene without appropriate protection equipment. Respiratory protection apparatus insulating autonomous. Full body protection.
- Other information : Collect liquid waste for recycling or reuse. Do not reject in the sewer or the environment.

SECTION 6: Accidental Release Measures

6.1. Individual precautions, protection equipment and emergency procedures

- General measures : Evacuate the zone. Relocate non-essential personnel.
- 6.1.1. For non first aid workers
- Emergency procedures : Ventilate the spill zone.
- 6.1.2. For first aid workers
- Protection equipment : Do not intervene without appropriate protection equipment. For more information, refer to section 8: "Exposure Control / Personal Protection".
- Emergency procedures : Stop the leak. Ventilate the zone.

6.2. Precautions for the protection of the environment

Avoid spilling in the environment.

6.3. Confinement and cleaning methods and equipment

- Cleaning processes : Absorb the liquid using an absorbent product (sand, kieselguhr, acid neutralizer, universal binder, sawdust).
Dispose the material collected as set out by regulations.
- Other information : Dispose the solid materials or residues in an authorized centre.

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6.4. References to other sections

For more information, refer to section 13.

SECTION 7: Handling and Storage

7.1. Handling Procedures and Equipment

- Precautions required for safe handling : Ensure the work station is properly ventilated. Wear personal protection equipment. Avoid any contact with the skin and eyes. AVOID THE FORMATION OF MIST.
- Hygiene measures : Do not eat, drink or smoke when handling this product. Wash your hands after handling.

7.2. Storage Requirements

- Storage conditions : Store in a well-ventilated location. Store in a dry location. Store in a closed container. Store in a cool place. Maintain the containers closed when not in use.

7.3. Particular end use(s)

No additional information available

SECTION 8: Exposure Control / Personal Protection

8.1. Exposure limits

Triphenyl phosphate (CAS no.) 115-86-6		
France	Local name	Triphenyl phosphate
France	VME (mg/m ³)	3 mg/m ³

8.2. Engineering Controls

- Appropriate technical controls : Ensure the work station is properly ventilated. Usual precautionary measures shall be applied when handling chemicals.
- Hand protection : Protection gloves. Gloves resisting to chemicals (as per the NF EN 374 standard or equivalent). The appropriate glove shall be chosen not only according to the material, but also other quality characteristics, and differs from one manufacturer to another
- Eye protection : Safety goggles. Use an eye protection designed to protect against splashing as per EN 166
- Protection of the skin and body : Wear appropriate protection clothing
- Protection of the airways : In case of insufficient ventilation, wear an appropriate respiratory apparatus
- Control of exposure of the environment : Avoid spilling in the environment.

SECTION 9: Physical and Chemical Properties

9.1. Information on the main physical and chemical properties

- Physical state : Liquid
- Appearance : Transparent.
- Odour : characteristic.
- Odour Threshold : No data available
- pH : No data available
- Evaporation rate (butylic acetate =1) : No data available
- Melting point : Non applicable
- Freezing point : No data available
- Boiling point : No data available
- Flash point : > 190 °C
- Self-ignition temperature : The product does not ignite spontaneously.
- Decomposition temperature : No data available
- Flammability (solid, gas) : Non applicable
- Vapour pressure : No data available
- Vapour density at 20 °C : No data available
- Relative density : No data available
- Density : 0.886 g/cm³
- Solubility in water : Non miscible
- Log Pow : No data available
- Kinematic viscosity : > 30 mm²/s measured at 40°C
- Dynamic viscosity : No data available
- Explosive properties : The product is not explosive.

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Oxidizing properties : No data available

Explosivity limits : No data available

9.2. Other information

No additional information available

SECTION 10: Stability and Reactivity

10.1. Reactivity

The product is not reactive in normal conditions of use, storage and transport.

10.2. Chemical Stability

Stable in normal conditions.

10.3. Reacivity, and under what conditions?

No hazardous reaction in normal conditions of use.

10.4. Conditions to be avoided

None of the storage and handling conditions recommended (see section 7).

10.5. Incompatibility with other substances

No additional information available

10.6. Hazardous decomposition products

No hazardous decomposition products should be generated in normal conditions of storage and use.

SECTION 11: Toxicological Information

11.1 Information on toxicological effects

Acute toxicity : Non classified

Phenol, isopropylated, phosphate (3: 1) [Triphenyl phosphate > 5%] (68937-41-7)	
DL50 oral rat	> 5000 mg/kg
DL50 skin rabbit	> 10000 mg/kg
triphenyl phosphate (115-86-6)	
DL50 oral rat	3500 mg/kg
Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts (68649-42-3)	
DL50 oral rat	2230 mg/kg
DI 50 skin rat	> 2000 mg/kg

Skin corrosion/irritation	: Non classified Considering the data available, the classification criteria are not met
Severe eye lesions/ irritation	: Non classified Considering the data available, the classification criteria are not met
Respiratory or skin sensitization	: Non classified Considering the data available, the classification criteria are not met
Mutagenicity on germinal cells	: Non classified Considering the data available, the classification criteria are not met
Carcinogenicity	: Non classified
Toxicity for reproduction	: Non classified Considering the data available, the classification criteria are not met
Specific toxicity for certain target organs (single exposure)	: Non classified Considering the data available, the classification criteria are not met
Specific toxicity for certain target organs (repeated exposure)	: Non classified Considering the data available, the classification criteria are not met
Inhaling hazard	: Non classified Considering the data available, the classification criteria are not met

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Kinematic viscosity	> 30 mm ² /s measured at 40°C

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SECTION 12: Ecological Information

12.1. Toxicity

- Environment - general : Harmful to aquatic life with long lasting effects.
Avoid product penetration into the water table, waters or pipes, whether diluted or in large quantities.
- Environment - water : Harmful to aquatic life with long lasting effects.

12.2. Persistence and degradability

MINERAL CUTTING OIL	
Persistence and degradability	Harmful for the environment with long lasting effects.

12.3. Bioaccumulation potential

No additional information available

12.4. Mobility in the soil

No additional information available

12.5. Results of PBT and VPVB evaluations

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal Considerations

13.1 Waste Disposal

- Regional legislation (waste) : Disposal to be made in compliance with legal prescriptions. Ensure that all national or local regulations are observed.
- Waste processing methods : Dispose the content/container in compliance with the sorting instructions of the approved collector.
- Recommendations for waste disposal : Dispose this product and its container in a hazardous or special waste collection centre. Do not spill in the sewers or rivers.

SECTION 14: Transport Information

Complies with ADR / RID / IMDG / IATA / ADN requirements

14.1. UN number

The product is not a hazardous product in the meaning of regulations applicable to transport. (ADR, RID, IMDG, IATA)

14.2. Official UN transport designation

- Official transport designation (ADR) : Non determined.
- Official transport designation (IMDG) : Non determined.
- Official transport designation (IATA) : Non determined.
- Official transport designation (ADN) : Non determined.
- Official transport designation (RID) : Non determined.

14.3. Hazard class(es) for transport

ADR

- Hazard class(es) for transport (ADR) : Non determined.

IMDG

- Hazard class(es) for transport (IMDG) : Non determined.

IATA

- Hazard class(es) for transport (IATA) : Non determined.

ADN

- Hazard class(es) for transport (ADN) : Non determined.

RID

- Hazard class(es) for transport (RID) : Non determined.

14.4. Packaging group

- Packaging group (ADR) : Non determined.
- Packaging group (IMDG) : Non determined.
- Packaging group (IATA) : Non determined.

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Packaging group (ADN) : Non determined.

Packaging group (RID) : Non determined.

14.5. Hazards for the environment

Hazardous for the environment : No

Marine pollutant : No

Other information : No additional information available

14.6. Particular precautions required

- Road transport

No data available

- Maritime transport

No data available

- Air transport

No data available

- River transport

No data available

- Rail transport

No data available

14.7. Bulk transport compliant with appendix II of the MARPOL 73/78 convention and IBC leaflet

Non determined.

SECTION 15: Regulatory Information

15.1. Regulations/legislation specific to chemicals in terms of safety, health and the environment

15.1.1. UE regulations

The following restrictions are applicable according to appendix XVII of Regulation (CE) No. 1907/2006 (REACH):	
3 Liquid substances or mixes considered to be hazardous in the meaning of directive 1999/45/CE or meeting the criteria for one of the hazard classes or categories below, covered in appendix I of regulation (CE) no. 1272/2008	Phenol, isopropylated, phosphate (3: 1) [Triphenyl phosphate > 5%]
3.b. Substances or mixes meeting the criteria for one of the hazard classes or categories below, covered in appendix I of regulation (CE) no. 1272/2008 Hazard classes 3.1 to 3.6, 3.7 adverse effects on the sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10	Phenol, isopropylated, phosphate (3: 1) [Triphenyl phosphate > 5%]
3.c. Substances or mixes meeting the criteria for one of the hazard classes or categories below, covered in appendix I of regulation (CE) no. 1272/2008 Hazard class 4.1	MINERAL CUTTING OIL - Phenol, isopropylated, phosphate (3: 1) [Triphenyl phosphate > 5%]

Contains no substance from the REACH candidate list

Contains no substance listed in Appendix XIV of REACH

15.1.2. National directives

No additional information available

15.2. Chemical safety evaluation

No chemical safety evaluation has been made

SECTION 16: Other Information

Change indication:			
All sections	Formula/regulatory modification	Added/modified/Removed	

Abbreviations and acronyms:	
VLE/VME	Exposure limit value/Average limit value
ADN	European agreement relative to international transport of freight by interior navigation ways
ADR	European agreement relative to international transport of hazardous freight by Road
ATE	Acute toxicity estimate
BCF	Bioconcentration factor
CIRC	International research centre on cancer
CL50	Lethal concentration for 50 % population tested (median lethal concentration)
CLP	Regulation relative to the classification, labelling and packaging; regulation (CE) no. 1272/2008

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DMEL	Derived dose with minimum effect
DNEL	Derived dose without effect
DPD	Directive 1999/45/CE relative to hazardous preparations
DSD	Directive 67/548/CEE relative to hazardous substances
EC50	Effective median concentration
MSDS	Material Safety Data Sheet
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LD50	Lethal dose for 50 % population tested (median lethal dose)
LOAEL	Minimal dose with noxious effect observed
NOAEC	Concentration without noxious effect observed
NOAEL	Dose without noxious effect observed
NOEC	Concentration without effect observed
OECD	Organisation for economical cooperation and development
PBT	Persistent, bioaccumulable and toxic
PNEC	Predicted non effect concentration(s)
REACH	Registration, evaluation, authorisation and restriction of chemical substances. Regulation (EU) REACH No. 1907/2006
RID	International regulation on the transport of hazardous goods by rail
STP	Treatment plant
TLM	Median limit tolerance
vPvB	Very persistent and very bioaccumulable

Training advice	:	This product is intended exclusively for the use described on its packaging.
Other information	:	Check that all national or local regulations are observed.

Complete text of the H and EUH phrases:	
Aquatic Acute 1	Harmful to aquatic life — Acute hazard, Category 1
Aquatic Chronic 1	Harmful to aquatic life — Chronical hazard, Category 1
Aquatic Chronic 2	Harmful to aquatic life — Chronical hazard, Category 2
Repr. 2	Toxicity for reproduction, Category 2
Skin Irrit. 2	Corrosive/irritating for the skin, Category 2
STOT RE 2	Specific toxicity for certain target organs - Repeated exposure, Category 2
H315	Causes skin irritation
H361	Sepected 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

FDS UE (Appendix II REACH)

This information is based on our current knowledge and describe the product for the sole needs of health, safety and the environment. Therefore, it should not be interpreted as guaranteeing any specific property of the product