

Materiel safety data sheet

SUPERTELMACO 3

Page:1/7

Product code: STEL3

Issue : 1

Date: 20/06/2000

Product working and transport labels :

LABELING (customary or EC) : Not concerned.
TRANSPORT HAZARD LABEL : Not concerned.

1. Product and company identification.

BUSINESS NAME : SUPERTELMACO 3
PRODUCT USE : High temperature grease.
* Company name/title : ELF LUBRIFIANTS
* Address : 48, avenue du Général De Gaulle.
92922 PARIS LA DEFENSE CEDEX
FRANCE
* Telephone : 33-1-41972825
* Fax : 33-1-41972820
EMERGENCY CALL No. :
* France : Centre Anti-Poisons - Hôpital Fernand Widal
200, rue du Faubourg Saint-Denis
75010 PARIS Cédex 10
Tel. (1)40.05.48.48
ORFILA : Anti-poisons center - Tel : 01.45.42.59.59

2. Composition/information on ingredients.

PREPARATION.
* chemical nature : The product is made from refined mineral base oils.
(content in PAH of mineral oils < 3% - as per IP 346)
* Substances contributing to hazards : Max. 1% Diphenylamine (CAS Nr. 122-39-4).
T-Toxique R23/24/25 R33 N; R50-53.
* impurities contributing to hazards : None to our knowledge

3. Hazards identification.

* detrimental effects on health : Under customary conditions of use, this product does not present any danger of poisoning.
* effects on environment : Do not dump this product into the environment.
* physical-chemical hazards : No particular risk of ignition or explosion during normal use.

4. First-aid measures.

IN THE EVENT OF SERIOUS OR PERSISTENT PROBLEMS CALL A DOCTOR OR ASK FOR EMERGENCY MEDICAL ASSISTANCE.

Matériel safety data sheet

SUPERTELMACO 3

Page:2/7

Product code: STEL3

Issue : 1

Date: 20/06/2000

Methods of exposure :

* Inhalation :

The inhalation of extensive concentrations of vapours, fumes or aerosols can cause irritation of the upper breathing passages.

Take the person out into the air, keep warm and at rest.

* Skin contact :

Remove immediately contaminated clothing.

Wash immediately and copiously with soap and water.

There is a risk of absorption into the organism if a jet under high pressure hits the skin ; the patient must be transported to the hospital, even in the absence of a visible injury.

* Eye contact :

Wash immediately and copiously in water, while spreading eyelids apart, for at least 15 minutes.

* Ingestion :

Possible risk of vomiting and diarrhoea.

Do not induce vomiting to avoid the risk of aspiration in the respiratory tract.

Do not force the party to drink.

5. Fire - fighting measures.

FLASH POINT :

See section 9

EXTINGUISHING MEDIA :

* Suitable :

Carbon dioxide (CO₂), dry chemicals, foam.

* Not to be used :

Do not use fire monitors (solid jets) because they could favour the dispersion of the flames.

SPECIFIC HAZARDS :

Incomplete combustion and thermolysis produce rather toxic gases such as CO, CO₂, different hydrocarbons, aldehydes, chlorinated products, etc. and soot. The inhalation of these materials is very dangerous.

PROTECTION OF PARTICIPANTS :

Mandatory to wear insulating breathing apparatus in confined atmosphere because of the abundant smoke and gas given off.

6. Accidental release measures.

*** REFER ALSO TO SECTIONS 8 AND 13 ***

MEASURES AFTER LEAKAGE AND SPREADING :

* on the ground

Spills of this product can make surfaces slippery.

Prevent the product from spilling on into the drains or into a watercourse or contaminating the soil.

Using physical facilities (pumping, skimming, etc.); contain the spillage and recover using sand or any other type of inert absorbent material.

In the event of spillage, notify competent authorities when the situation cannot be brought rapidly and efficiently under control.

* on water

Floating absorbent products then mechanical collection.

If the product spreads into a watercourse or drain, notify the authorities of the floating matter.

Material safety data sheet

SUPERTELMACO 3

Page:3/7

Product code: STEL3

Issue : 1

Date: 20/06/2000

7. Handling and storage.

HANDLING :

* Technical measures :

worker exposure prevention :

Ensure sufficient ventilation in the event of the risk of vapors, fogs or aerosols forming.

Take any steps to minimize the risks of exposure, in particular regarding oils in use or used oils.

Keep away from combustible materials; keep away from foods and drinks.

prevention of fire and explosion :

Empty packages can contain flammable or explosive vapors.

Cloths impregnated with the product, paper or materials used to absorb spillage are a fire hazard.

Prevent their accumulation. Eliminate them immediately and safely after use.

* Precautions :

Avoid the build-up of static electricity by grounding the equipment.

Design the installations to prevent accidental projections of the product (for instance, burst seal) on a hot casings and electric contact.

* Instructions for use :

Avoid contact with strong oxidizers.

Use only recipients, seals and pipes that resist hydrocarbons.

STORAGE :

* Technical measures :

Design the installations and take all steps necessary to avoid the pollution of water and soil.

* Storage conditions :

* recommended :

Store at ambient temperature away from water, damp and any source of ignition.

Keep recipients closed when not being used.

avoid :

Storage exposed to bad weather.

* Incompatible materials :

Dangerous reaction with strong oxidizing agents.

* Packaging materials :

recommended :

Use only recipients, seals and pipes resisting hydrocarbons.

It is preferable to preserve the product in its original package. Otherwise, if necessary, refer to any indications given on the regulatory label of the new package.

8. Exposure controls/personal protection.

TECHNICAL MEASURES :

Use the product in a well ventilated place.

For work in a confined enclosure (tanks, reservoirs), make sure that the air is suitable for breathing and/or wear the recommended equipment.

TEST PARAMETERS :

Exposure limit values

Not applicable.

INDIVIDUAL PROTECTION EQUIPMENT :

* Hand protection:

Water-proof gloves resisting hydrocarbons.

Recommended materials: nitrile, neoprene.

* Eye protection:

Goggles in the event of any risk of splashing.

* protect skin and body other than hands :

As needed, face screen, boots, hydrocarbon-proof clothing, safety shoes (when handling drums).

Do not wear rings, watches or similar objects that could retain the product and cause a skin reaction.

HYGIENE MEASURES :

Avoid extended and repeated contact with skin, in particular for oils in use or used oils.

Remove any soiled or splashed clothing immediately.

Material safety data sheet

SUPERTELMACO 3

Page:4/7

Product code: STEL3

Issue : 1

Date: 20/06/2000

After contact with skin, wash immediately with plenty of water and soap.
Do not use abrasive products, solvent or fuel.
Do not wipe your hands with cloths used for cleaning.
Never place cloths soaked in the product in the pockets of working clothing.
Do not eat or drink or smoke during use.

9. Physical and chemical properties.

APPEARANCE :

* physical state :

Pasta

* color :

Beige.

ODOUR :

Characteristic.

pH :

Not applicable.

SPECIFIC TEMPERATURES AT WHICH PHYSICAL STATE

CHANGES :

* Drop point :

≥ 250 °C (NF T 60-102).

FLASH POINT :

Not determined.

AUTO-IGNITION TEMPERATURE :

> 250 °C (ASTM E659).

This value may be reduced considerably under specific conditions (slow oxidization in highly divided environments).

EXPLOSION LIMITS :

The lower flammable limit of oil mist is reached at concentrations in the range of 45 g/m³.

DENSITY :

approx 880 kg/m³ at 20°C

SOLUBILITY :

* in water :

Insoluble and immiscible.

* in organic solvents :

Soluble in an important number of solvents.

Worked penetration 60 stokes at 25°C :

280 mm-1 (NF T 60-132)

log P n-octanol/water at 20°C :

Mineral oils: > 6

10. Stability and reactivity.

STABILITY :

Product stable at normal storage, handling and utilization temperatures.

DANGEROUS REACTIONS :

No dangerous reactions under normal conditions of use. Refer to Technical data sheet.

* Conditions to avoid :

The heat (temperatures above the flash point), sparks, ignition points, flames, static electricity.

* Materials to avoid :

Avoid contact with strong oxidizers.

HAZARDOUS DECOMPOSITION PRODUCTS :

Incomplete combustion and thermolysis produce quite toxic gases such as CO, CO₂, different hydrocarbons and soot.

Matériel safety data sheet

SUPERTELMACO 3

Page:5/7

Product code: STEL3

Issue : 1

Date: 20/06/2000

11. Toxicological information.

ACUTE TOXICITY/LOCAL EFFECTS :

* Inhalation : An unlikely risk in normal handling conditions.
The inhalation of extensive concentrations of vapours, fumes or aerosols can cause irritation of the upper breathing passages.

* Skin contact : Not harmful.

An unlikely risk in normal handling conditions.

* Ingestion : Dommages peu probables en cas d'ingestion de faibles quantités. En cas de grandes quantités ingérées; maux d'estomac, diarrhée,...

SENSITIZATION :

To our knowledge, the product does not cause aggravated sensitivity.

CHRONIC OR LONG-TERM TOXICITY :

* Skin contact : Characteristic skin lesions (oil spots) may develop after extended and repeated exposure to contact with soiled clothing.

* carcinogenic : The product is formulated from severely refined mineral oils and other components which are not considered as carcinogen.

The product is not considered carcinogenic.

12. Ecological information.

* Mobility :

air : There are few losses caused by evaporation.

soil : Because of its physical-chemical characteristics, the product is generally little mobile in soil.

water : Insoluble, the product spreads on the surface of the water.

* Persistence and degradability : No experimental data available for the finished product.

However the constituent "mineral oil" of the new product is fundamentally biodegradable.

Some components may not be biodegradable.

* Ecotoxicity : No experimental data available for the finished product.

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

No known data for the used product.

13. Disposal considerations..

ELIMINATION OF WASTE :

Dispose of in a safe manner, in accordance with local regulations.

Where applicable, recovery by an approved collector, regeneration or burning in an approved installation.

ELIMINATION OF SOLID PACKAGES :

Comply with the current regulations.

LOCAL REGULATORY PROVISIONS :

* France :

Notice relative to the wastes nomenclature of 11.11.97.

Law No. 75-633 of 15.07.75 amended, relative to the elimination of wastes and the recovery of materials.

Regulations concerning the collection of used oils:

Matériel safety data sheet

SUPERTELMACO 3

Page:6/7

Product code: STEL3

Issue : 1

Date: 20/06/2000

Decree 79-981 of 21.11.79 and rules of 28.01.99 relative to their collection and the conditions for their elimination.

Law No. 88-1261 of 30.12.88 concerning the import, export and transit of wastes.

Decree No. 77-254 of 08.03.77 relative to the regulation for the dumping of oils and lubricants into surface waters.

14. Transport information.

UN Nr. :	Not classified under this legislation.
Road (ADR)/rail (RID)/river (ADNR) :	No restriction for transport.
Maritime (IMO-IMDG) :	No restriction for transport.
by air (OACI/IATA) :	No restriction for transport.

15. Regulatory information.

COMMUNITY REGULATION :

* EC labeling :

- Symbol(s):	None
- R Phrase(s):	None.
- S Phrase(s):	None.

NATIONAL REGULATIONS :

* France :

* social security code :	Table of professional illnesses : n°36, n°15 Art. L.461-6, art. D.461-1, annexe A, n°601
* labor code :	Art. R.241-50, ruling of 11.07.1977 (Special medical surveillance).

16. Other information.

Complies with Directive 93/112 EC, amended and the ruling of 05/01/1993.

This sheet completes the technical datasheet, but it doesn't replace it. The information contained herein is based on our knowledge on the product in question, at the date indicated. It is given in good faith.

The attention of the users is drawn to the risks into which they can incur by using the product for applications other than the ones for which it has been conceived. It does not exempt in any case the user from knowing and observing all texts which regulate his activity. He will be the only responsible for taking precautionary measures, according to the applications for which he uses the product.

Matériel safety data sheet

SUPERTELMACO 3

Page:7/7

Product code: STEL3

Issue : 1

Date: 20/06/2000

All mentioned regulatory prescriptions have been indicated just to help the user to be able to meet all incumbent obligations. This listing cannot be considered exhaustive. The user must ensure that there aren't any other prescriptions in addition to those indicated.

End of document.

Number of page(s):7