

Material Safety Data Sheet

INUGEL OPTIMAL ULTRA

8181

Version nr : 1.03

Revised : 11/06/2004

Supersedes : 18/02/2004



Xn - Harmful

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Product Information

Commercial Product Name **INUGEL OPTIMAL ULTRA**Product code **8181**Use of the Substance/Preparation
Pure condensed anti freeze

Manufacturer, importer, supplier

Supplier
MOTUL - Regulation Departement
Zone Industrielle - Chemin du Corps de Garde
77360 VAIRES SUR MARNE - FRANCE

Telephone 33.1.64.72.86.23

Telefax 33.1.64.72.86.28

EMERGENCY TELEPHONE NUMBER ORFILA : 33.1.45.42.59.59

Responsible Department Health and Safety Department

2. COMPOSITION/INFORMATION ON INGREDIENTS

Identification of the preparation

<u>Hazardous components</u>	<u>Weight %</u>	<u>CAS-No.</u>	<u>EINECS-No.</u>
ethanediol; ethylene glycol XN,R22	80 - 95 %	107-21-1	2034733
Sodium 2-ethylhexanoate Xn,R63	< 5 %	19766-89-3	243-283-8

contains The product contains a bittering repellent agent.
Chemical characterisation Aqueous solution containing ethylene glycol

3. HAZARDS IDENTIFICATION

EC Label

Specific hazards

- physico-chemical properties
- properties affecting health

Harmful if swallowed.
none under normal use
Prolonged skin contact may cause skin irritation.
No hazards resulting from material as supplied.
None known
Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.
Inhalation of vapours may cause irritation of the respiratory system in very susceptible persons.
1 - 2 mg/kg LD50 oral Ethylène Glycol



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- environmental properties

Ecological injuries are not known or expected under normal use.

4. FIRST AID MEASURES

General advice

In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

- Inhalation

Move to fresh air.

- Eye contact

If symptoms persist, call a physician.

Rinse immediately with plenty of water, also under the eyelids.

- Skin contact

Consult a physician if necessary

Take off all contaminated clothing immediately.

- Ingestion

Wash off immediately with soap and plenty of water.

Clean mouth with water and drink afterwards plenty of water.

Notes to physician

Do not induce vomiting without medical advice.

Vapours may cause drowsiness and dizziness.

Kidney injury may occur.

5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media

dry powder

water spray

foam

carbon dioxide (CO₂)

- Extinguishing media which must not be used for safety reasons

high volume water jet

- Specific hazards

Incomplete combustion produces toxic gases, such as CO, CO₂, various forms of hydrocarbons, aldehydes etc., and soots. Inhalation is extremely dangerous.

Vapours may form explosive mixtures with air.

- Specific methods

Water mist may be used to cool closed containers.

In the event of fire, wear self-contained breathing apparatus.

- Under fire conditions:

Dispose of promptly.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Depending on the risk of exposure, wear gloves, goggles, and protective clothing.

Ensure adequate ventilation.

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Environmental precautions

Do not let product enter drains.

Local authorities should be advised if significant spillages cannot be contained.

Methods for cleaning up

For environmental protection remove and wash all contaminated protective equipment before re-use.

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

Contaminated surfaces will be extremely slippery.

Clean with detergents. Avoid solvents.

Prevent product from entering drains.

Use personal protective equipment.

MOTUL

119, bd Félix Faure

B.P. 94

93303 Aubervilliers Cedex

France

phone : 0033.1.48.11.70.00

fax : 0033.1.48.33.28.79

Email : mmanno@motul.fr

Page : 2 / 6

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Shovel into suitable container for disposal.

7. HANDLING AND STORAGE

Handling

- Technical measures/Precautions

Provide sufficient air exchange and/or exhaust in work rooms.

Keep product and empty container away from heat and sources of ignition.

Handle in accordance with good industrial hygiene and safety practice.

When using do not smoke.

- Safe handling advice

Avoid contact with skin and eyes.

Do not breathe vapours or spray mist.

Storage

- Technical measures/Storage conditions

Use only receptacles, joints, pipes, etc, which are resistant to hydrocarbons.

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

Do not let product enter drains.

Keep away from food, drink and animal feeding stuffs.

Keep away from direct sunlight.

Keep at temperatures between 5 and 40 °C.

Keep out of reach of children.

Do not smoke.

Store in original container.

Keep in a banded area.

- Incompatible products

flammable materials

Incompatible with strong acids and oxidising agents.

- Packaging material

stainless steel

- Unsuitable materials:

May attack many plastics, rubbers and coatings.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limit(s)

TLV

ethanediol; ethylene glycol

VLE

40 ppm

TLV-TWA

10 mg/m3



Personal protective equipment

Respiratory protection

Hand protection

Eye protection

Skin and body protection

Hygiene measures

Breathing apparatus needed only when aerosol or mist is formed.

protective gloves

safety glasses

long sleeved clothing

Avoid contact with the skin and the eyes.

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B.P. 94

93303 Aubervilliers Cedex

France

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Page : 3 / 6

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Engineering measures

Handle in accordance with good industrial hygiene and safety practice.

Take off all contaminated clothing immediately.

When using do not eat or drink.

Provide sufficient air exchange and/or exhaust in work rooms.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	liquid
Colour	orange
Odour	slight
pH	8,65 Not applicable
Flash point	
open cup	not applicable
Water solubility	soluble
Solubility in other solvents	Soluble in hydrocarbons
	soluble
Viscosity	5 - 10 CST ASTM D 445
Specific gravity	1054
Autoinflammability	> 300 °C

10. STABILITY AND REACTIVITY

Stability	Stable at normal conditions
Materials to avoid	Incompatible with oxidising agents. Incompatible with acids.
Hazardous decomposition products	Incomplete combustion produces toxic gases, such as CO, CO ₂ , various forms of hydrocarbons, aldehydes etc., and soots. Inhalation is extremely dangerous. 500 - 600 °C

11. TOXICOLOGICAL INFORMATION

<u>Local effects</u>	The following toxicological data shown are those obtained from tests on products of similar composition in accordance with The Chemicals (Hazard Information and Packaging for Supply) Regulations 1994.
<u>Acute toxicity</u>	Health injuries are not known or expected under normal use.
Ingestion	Harmful if swallowed. Kidney injury may occur. Ingestion of larger amounts may cause defects to the central nervous system (e.g. dizziness, headache).
LD50/oral/rat =	> 5000 mg/kg
Eye contact	no data available
Skin contact	Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin.
Inhalation	Inhalation of vapours may cause irritation of the respiratory system in very susceptible persons.

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Page : 4 / 6

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Chronic toxicity

Repeated or prolonged exposure may cause skin irritation and dermatitis, due to degreasing properties of the product.

12. ECOLOGICAL INFORMATION

Persistence and degradability

The product evaporates readily.
Inherently biodegradable.

Mobility

Product readily filters into the soil.

Ecotoxicity effects

Ecological injuries are not known or expected under normal use.
This product has no known eco-toxicological effects.

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products

Send to an approved Waste Collector
Collect all waste in suitable and labelled containers and dispose of in compliance with licence from HMIP issued under sections 6 & 7 of the Radioactive Substances Act 1960.

Contaminated packaging

Do not flush into surface water or sanitary sewer system.
Where possible recycling is preferred to disposal or incineration.
The user's attention is drawn to the possible existence of local regulations regarding disposal.

EWC waste disposal No:
NOTE

Send to an approved Waste Collector
In accordance with local and national regulations.
16 01 14 - antifreeze fluids containing dangerous substances
Avis relatif à la nomenclature ds déchets du 11/11

14. TRANSPORT INFORMATION

Land transport

Class

not regulated

Sea transport

Class

not regulated

Air transport

Class

not regulated

15. REGULATORY INFORMATION

Labelling

The preparation is classified as dangerous in accordance with Directive 1999/45/EC.

Symbol(s):

Xn - Harmful

R-phrases)

R22 - Harmful if swallowed.

S-phrases)

S 2 - Keep out of the reach of children.

S36/37 - Wear suitable protective clothing and gloves.

S46 - If swallowed, seek medical advice immediately and show this container or label.

France

This safety data sheet complies with the recommendations of European Community and French regulations.
Contact your local branch for adaptation to specific national requirements.

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84

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16. OTHER INFORMATION

16. Other information

This dossier supplements the technical notifications for use, but does not replace them. The information which it contains is based on our knowledge relating to the product in question on the date indicated. The information is given in good faith. The user's attention is also drawn to possible risks incurred if a product is employed for uses other than those for which it was designed. The information dossier does not, under any circumstances, discharge the user from the obligation of being aware of, and of applying, all the texts which govern his sphere of activity. He shall be solely responsible for taking the precautions associated with the use which he makes of the product. All the statutory provisions referred to are intended simply to assist the recipient in fulfilling the obligations incumbent upon him. This enumeration must not be considered to be exhaustive. The recipient must ensure that no obligations are incumbent upon him, as a result of texts other than those cited, relating to the holding and handling of the product, for which he alone is responsible.

Text of R phrases mentioned in Section 2 R22 - Harmful if swallowed.

This data sheet conforms to standards defined by directives 2001/58/CE
Data sheet prepared by MOTUL.

IMPORTANT: The information in this Data Sheet applies only to the products designated herein and produced or supplied by us. It is based on our experience and on the data available to us at the time of its issue and is accurate to the best of our knowledge.