



Material Safety Data Sheet

RBF 600

8069

Version nr : 1.01

Revised : 29/08/2007

Supersedes : 19/05/2003

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

Product Information

Commercial Product Name **RBF 600**
Product code **8069**

Use of the Substance/Preparation Brake Fluid

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

Hazardous components

	<u>Weight %</u>	<u>CAS-No.</u>	<u>EINECS-No.</u>
Butyl tri glycol Xi,R36	< 20 %	143-22-6	205-592-6
2-(2-methoxyethoxy)ethanol; diethylene glycol monomethyl ether Xn,R63	< 5 %	111-77-3	203-906-6
2,2'-oxydiethanol Xn,R22	< 25 %	111-46-6	203-872-2

3. HAZARDS IDENTIFICATION

EC Label

Specific hazards

- physico-chemical properties
- properties affecting health
- environmental properties

Moderate eye irritation
Moderate skin irritation
none under normal use
No hazards resulting from material as supplied.
None known
Ecological injuries are not known or expected under normal use.

4. FIRST AID MEASURES

General advice

- Inhalation

- Eye contact

- Skin contact

- Ingestion

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

Move to fresh air.

If symptoms persist, call a physician.

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

Consult a physician if necessary

Take off all contaminated clothing immediately.

Wash off immediately with soap and plenty of water.

Clean mouth with water and drink afterwards plenty of water.

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Page : 1 / 5

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Do not induce vomiting without medical advice.

5. FIRE-FIGHTING MEASURES

- | | |
|---|---|
| - Suitable extinguishing media | dry powder
foam
carbon dioxide (CO ₂)
high volume water jet |
| - Extinguishing media which must not be used for safety reasons | |
| - Specific hazards | Incomplete combustion produces toxic gases, such as CO, CO ₂ , various forms of hydrocarbons, aldehydes etc., and soots. |
| - Specific methods | 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.
For environmental protection remove and wash all contaminated protective equipment before re-use. |
| Methods for cleaning up | Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Contaminated surfaces will be extremely slippery.
Prevent product from entering drains.
Use personal protective equipment.
Shovel into suitable container for disposal. |

7. HANDLING AND STORAGE

Handling

- | | |
|----------------------------------|---|
| - Technical measures/Precautions | Provide sufficient air exchange and/or exhaust in work rooms.

Handle in accordance with good industrial hygiene and safety practice. |
| - 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 at temperatures between 5 and 40 °C.
Keep away from food, drink and animal feeding stuffs.
Keep out of reach of children. |
|---|--|

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Page : 2 / 5

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- Incompatible products

Do not smoke.
Store in original container.
Keep in a banded area.
Incompatible with strong acids and oxidising agents.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION**Personal protective equipment***Respiratory protection**Hand protection (EN 420, EN 374-3)**Eye protection (EN 166)**Skin and body protection (DIN - EN 465)*

Hygiene measures

Engineering measures

Breathing apparatus needed only when aerosol or mist is formed.
protective gloves

Glove material : nitrile rubber

Layer thickness : 0,11 mm

Breakthrough time : > 480 Min.

safety glasses

As required, wear a face mask, fluid-proof protective clothing, and safety boots (when handling drums)

Don't wear ring, watch or similar thing which will be able to hold the product and may give rise to some skin diseases,

Take off all contaminated clothing immediately.

When using do not eat or drink.

Avoid contact with the skin and the eyes.

Handle in accordance with good industrial hygiene and safety practice.

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Form

liquid

Odour

slight

Density

1,04 - 1,09

pH

7 - 10,5 SAE J 1703

Boiling point/range

> 260 °C

Flash point

open cup

> 100 °C

Vapour pressure

< 2 millibars

Water solubility

soluble

Solubility in other solvents

Soluble in hydrocarbons

Viscosity

à 20°C 5 - 10 CST ASTM D 445

Autoinflammability

> 300 °C

10. STABILITY AND REACTIVITY**MOTUL**

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Page : 3 / 5

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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, CO₂, various forms of hydrocarbons, aldehydes etc., and soots.

11. TOXICOLOGICAL INFORMATION

Local effects

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.

Acute toxicity

Health injuries are not known or expected under normal use.

Ingestion

Weakly toxic

LD50/oral/rat =

> 5000 mg/kg

Eye contact

Mild eye irritation

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.

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

According to the results of tests of biodegradability this product is considered as being readily biodegradable.

Mobility

Do not flush into surface water or sanitary sewer system.

Product readily filters into the soil.

Bioaccumulation

Log Pow < 2

Aquatic toxicity

Ecotoxicity effects

no data available

Toxicity to fish

=> 100mg/l

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.

Send to an approved Waste Collector

In accordance with local and national regulations.

14. TRANSPORT INFORMATION

Land transport

Class

not regulated

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Page : 4 / 5

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Sea transport

Class not regulated

Air transport

Class not regulated

15. REGULATORY INFORMATION

EC Label

The product contains no substances classified as hazardous to health in concentrations which should be taken into account according to EC directive.

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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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.
R36 - Irritating to eyes.
R63 - Possible risk of harm to the unborn child.

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.