



Safety data-sheet issued according to US-Standard
Printed 19.06.06
Revision 21.03.06 (US) Version 1.1
FRIGOMET® BF 600
42 460.11

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

Name of product	FRIGOMET® BF 600 Prod-Nr. 42 460.11 Q-Nr. 9930206 Jo/sh
Manufacturer/distributor	Oemeta Chemische Werke GmbH Ossenpadd 54, D-25536 Uetersen Phone ++49 (0)4122/924-0, Fax ++49 (0)4122/924-157 E-Mail oemeta@oemeta.com Internet www.oemeta.com
Advice	Stefan Joksch Phone ++49 (0)4122/924-124 Fax ++49 (0)4122/924-157
Emergency advice	Chemtrec Phone 800 / 424-9300
Recommended intended purpose(s)	Water soluble cutting fluid (preparation to ISO 6743-7)
Effect of the substance / the formulation	Application range: industry / craft. For special application notes see technical data sheet.

! 2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterization
Preparation, contains surfactants, long-chain alcohols, additives

Hazardous ingredients

CAS-No.	EC-No.	Name	[%-Vol]	Classification
112-34-5	203-961-6	Diethylene glycol monobutyl ether	< 5	

! Additional advice

Please note: The information in this safety data sheet refers to the concentrate. In water solubilised form, other properties appropriate to the dilution apply.
See section 8 and 15 for further information concerning hazardous substances.
Composition: 40-60 % alkanolamine salts of carbon acid, 0,1-1 % biocides, 5-10 % polyglycols, 1-5 % glycols, 40-60 % water

3. HAZARDS IDENTIFICATION

Special hazards information for humans and environment
This product does not require marking as dangerous under the hazardous substances ordinance.

4. FIRST AID MEASURES

General information
Remove contaminated soaked clothing.

In case of inhalation
In the event of symptoms refer for medical treatment.

In case of skin contact
In case of contact with skin wash off with soap and water.



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In case of eye contact

In case of contact with eyes rinse thoroughly with warm water.

In case of ingestion

Do not induce vomiting.

Rinse out mouth and give plenty of water to drink.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Foam

Dry powder

Carbon dioxide

Water spray jet

Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases

Nitrogen oxides (NO_x)

Carbon monoxide (CO)

Special protective equipment for fire-fighters

Use breathing apparatus with independent air supply.

Additional information

Collect contaminated firefighting water separately, must not be discharged into the drains.

UEL / LEL and flashpoint see section 9.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

High risk of slipping due to leakage/spillage of product.

Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

Do not discharge into the subsoil/soil.

Methods for cleaning up

Take up with absorbent material (e.g. oil binder).

Additional Information

Informations for disposal see chapter 13.

7. HANDLING AND STORAGE

Requirements for storage rooms and vessels

Do not use containers, leads, pipes a.s.o. of copper or copper-containing alloys.

Do not use zinc containers.

Further information on storage conditions

Keep container tightly closed.

Store in a cool, well ventilated area, away from extreme heat or open flame.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Additional advice on system design

In case of forming aerosols/vapours we recommend purposeful exhaust.

Ingredients with occupational exposure limits to be monitored

CAS-No.	Name	Code	[mg/m ³]	[ml/m ³]	Remark
	oil mist		5		OSHA



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Additional advice

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Respiratory protection

Pay attention for good general ventilation.

Hand protection

At full-contact with the concentrate we recommend to use gloves.

Eye protection

Safety glasses

General protective measures

Avoid contact with eyes and skin

Hygiene measures

Do not eat or drink when working.

Clean skin thoroughly after working.

Cloths contaminated with product should not be kept in trouser pockets.

Keep away from food and drink.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form
liquid

Colour
yellow

Odour
mild

Important health, safety and environmental information

	Value	Temperature	at	Method	Remark
pH value in delivery state	9 - 11				
cloud / clear point	< 0 °C			ASTM D 5773	<32 °F
Flash point	not applicable				product contains water
Combustion temperature	not applicable				product contains water
Lower explosion limit	not determined				
Upper explosion limit	not determined				
Density	1,04 - 1,07 g/ cm ³	20 °C		ASTM D 1298	68 °F
Solubility in water					soluble
Viscosity 1 kinematic	10 - 16 mm ² /s	20 °C		ASTM D 445	68 °F

Additional information

The pH-value of the cutting fluid freshly mixed with water is between 9,0 - 9,3.

10. STABILITY AND REACTIVITY

Conditions to avoid

Avoid heating of concentrate > 100 °C.

Materials to avoid

Reactions with acids and strong oxidising agents.



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11. TOXICOLOGICAL INFORMATION

Acute toxicity/Irritability/Sensitization

	Value/Validation	Species	Method	Remark
Irritability skin	not irritating	rabbit	OECD 404	Test concentration 5 %
Irritability eye				Can shortly be irritating in case of direct contact.

Additional information

Pay attention to skin care/protection when continual or frequent contact with the water mixed form accours, because the product has degreasing effect which can make the skin dry.
Cutting fluid aerosol/vapours in the working environment should be avoided.

12. ECOLOGICAL INFORMATION

Data on elimination (persistence and degradability)

	Elimination rate	Method of analysis	Method	Validation
Biological degradability				Biodegradable
	The biodegradability of this product has not been tested, the classifying is related to the biodegradability of the single raw materials.			

General regulation

Do not discharge product unmonitored into the environment.

13. DISPOSAL CONSIDERATIONS

Recommendations for packaging

Waste disposal method must comply with local, state and federal regulations.

Recommended cleansing agent

Water

14. TRANSPORT INFORMATION

Transport/further informations

D.O.T. - non hazardous

15. REGULATORY INFORMATION

Remarks for classification

All constituents of the product are listed in the TSCA and DSL inventory.

WHMIS Classification: D2B

This product has been classified in accordance with the hazard criteria of the Controlled Product Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

This product contains the following chemicals, listed in: SARA Title III, Section 311/312 - Hazard Class - 40 CFR 370.2: Diethylene glycol butyl ether - CAS-No. 112-34-5: < 5 %

This product contains the following chemicals, listed in: SARA Title III, Section 313 Components - 40 CFR 372.65: Diethylene glycol butyl ether - CAS-No. 112-34-5: < 5 %

VOC standard

VOC content 0 %



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16. OTHER INFORMATION

Training advice

For further information how to use this product please apply to: Oemeta Chemische Werke GmbH/Germany, phone Mr. Joksch +49 4122/924-124.

Recommend uses and restrictions

Further information

For further information please apply the Technical Department ++49 4122/924-132.

! An exclamation mark before the relevant section number indicates that the safety data sheet has been revised.

OSHA = Occupational Safety and Health Administration

SARA = Superfund Amendment and Reauthorization Act

TSCA = Toxic Substance Control Act

DSL = Domestic Substances List

All declarations of safety-data-sheet refer to pure substance.

Sources of key data used

Oemeta Technical Department