



**SAFETY DATA SHEET**  
RBI GRAFFITIFJERNER

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Compilation date: 11th May 2015  
Revision date: 21st July 2015  
Revision No: 2

**Section 1: Identification of the substance/mixture and of the company/undertaking**

**1.1. Product identifier**

Product name: RBI GRAFFITIFJERNER  
Product code: LB

**1.2. Relevant identified uses of the substance or mixture and uses advised against**

Use of substance / mixture: A liquid blend of solvents for graffiti removal. Effective against a wide range of inks and paints.

**1.3. Details of the supplier of the safety data sheet**

Company name: RBI A/S  
Sorenskriver Bullsgt.32  
6002 ÅLESUND  
Norway  
Tel: 70 10 04 66  
Fax: 70 10 05 94  
Email: post@rbi-as.no

**1.4. Emergency telephone number**

**Section 2: Hazards identification**

**2.1. Classification of the substance or mixture**

Classification under CLP: Aquatic Chronic 2: H411; Eye Dam. 1: H318; Flam. Liq. 3: H226; Skin Irrit. 2: H315; Skin Sens. 1: H317

Most important adverse effects: Flammable liquid and vapour. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. Toxic to aquatic life with long lasting effects.

**2.2. Label elements**

**Label elements:**

**Hazard statements:** H226: Flammable liquid and vapour.  
H315: Causes skin irritation.  
H317: May cause an allergic skin reaction.  
H318: Causes serious eye damage.  
H411: Toxic to aquatic life with long lasting effects.

**Hazard pictograms:** GHS02: Flame  
GHS05: Corrosion  
GHS07: Exclamation mark  
GHS09: Environmental



**Signal words:** Danger

**Precautionary statements:** \* P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P261: Avoid breathing dust/fumes/gas/mist/vapours/spray.

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P280: Wear protective gloves/protective clothing/eye protection/face protection.  
P302+352: IF ON SKIN: Wash with plenty of water/soap and water.  
P303+361+353: IF ON SKIN (or hair): Take off immediately all contaminated clothing.  
Rinse skin with water.  
P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

## 2.3. Other hazards

PBT: This product is not identified as a PBT/vPvB substance.

## Section 3: Composition/information on ingredients

### 3.2. Mixtures

#### \* Hazardous ingredients:

2-(2-BUTOXYETHOXY)ETHANOL - REACH registered number(s): 01-2119475104-44-0000

EINECS	CAS	PBT / WEL	CLP Classification	Percent
203-961-6	112-34-5	-	Eye Irrit. 2: H319	10-30%

(R)-P-MENTHA-1, 8-DIENE - REACH registered number(s): 01-2119529223-47-0000

227-813-5	5989-27-5	-	Flam. Liq. 3: H226; Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Skin Irrit. 2: H315; Skin Sens. 1: H317; Asp. Tox. 1: H304	10-30%
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(2-METHOXYMETHYLETHOXY)PROPANOL - REACH registered number(s): 01-2119450011-60-0000

252-104-2	34590-94-8	Substance with a Community workplace exposure limit.	-	10-30%
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GAMMA BUTYROLACTONE - REACH registered number(s): 01-2119471839-21-0000

202-509-5	96-48-0	-	Acute Tox. 4: H302; Eye Irrit. 2: H319	5-10%
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C9-11 ALCOHOL ETHOXYLATE WITH 6.5MEO

-	68439-46-3	-	Acute Tox. 4: H302; Eye Dam. 1: H318	1-5%
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N,N-DIMETHYL 9-DECENAMIDE - REACH registered number(s): 01-2120058432-61-0000

-	1356964-77-6	-	Acute Tox. 4: H302; Skin Irrit. 2: H315; Eye Irrit. 2: H319; STOT SE 3: H335; Aquatic Chronic 3: H412	1-5%
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C9-11 ALCOHOL ETHOXYLATE WITH 3MEO

-	68439-45-2	-	Acute Tox. 4: H302; Eye Dam. 1: H318	1-5%
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## Section 4: First aid measures

### 4.1. Description of first aid measures

**Skin contact:** Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately with plenty of soap and water.

**Eye contact:** Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination.

**Ingestion:** Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water to drink immediately. Consult a doctor.

**Inhalation:** Remove casualty from exposure ensuring one's own safety whilst doing so.

### 4.2. Most important symptoms and effects, both acute and delayed

**Skin contact:** There may be irritation and redness at the site of contact.

**Eye contact:** There may be pain and redness. The eyes may water profusely. There may be severe pain. The vision may become blurred. May cause permanent damage.

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**Ingestion:** There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur.

**Inhalation:** There may be irritation of the throat with a feeling of tightness in the chest.

**Delayed / immediate effects:** Immediate effects can be expected after short-term exposure.

## 4.3. Indication of any immediate medical attention and special treatment needed

**Immediate / special treatment:** Eye bathing equipment should be available on the premises.

## Section 5: Fire-fighting measures

### 5.1. Extinguishing media

**Extinguishing media:** Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

### 5.2. Special hazards arising from the substance or mixture

**Exposure hazards:** In combustion emits toxic fumes.

### 5.3. Advice for fire-fighters

**Advice for fire-fighters:** Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

## Section 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

**Personal precautions:** Mark out the contaminated area with signs and prevent access to unauthorised personnel. Do not attempt to take action without suitable protective clothing - see section 8 of SDS. Turn leaking containers leak-side up to prevent the escape of liquid.

### 6.2. Environmental precautions

**Environmental precautions:** Do not discharge into drains or rivers. Contain the spillage using bunding.

### 6.3. Methods and material for containment and cleaning up

**Clean-up procedures:** Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

### 6.4. Reference to other sections

**Reference to other sections:** Refer to section 8 of SDS.

## Section 7: Handling and storage

### 7.1. Precautions for safe handling

**Handling requirements:** Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Avoid the formation or spread of mists in the air.

### 7.2. Conditions for safe storage, including any incompatibilities

**Storage conditions:** Store in a cool, well ventilated area. Keep container tightly closed.

### 7.3. Specific end use(s)

**Specific end use(s):** No data available.

## Section 8: Exposure controls/personal protection

### 8.1. Control parameters

[cont...]

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Hazardous ingredients:

2-(2-BUTOXYETHOXY)ETHANOL

Workplace exposure limits:

Respirable dust

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	67.5 mg/m <sup>3</sup>	101.2 mg/m <sup>3</sup>	-	-

(2-METHOXYMETHYLETHOXY)PROPANOL

EU	50 ppm / 308 mg/m <sup>3</sup> Sk	-	-	-
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## DNEL/PNEC Values

DNEL / PNEC No data available.

## 8.2. Exposure controls

**Engineering measures:** Ensure there is sufficient ventilation of the area.

**Respiratory protection:** Self-contained breathing apparatus must be available in case of emergency.

**Hand protection:** Protective gloves.

**Eye protection:** Tightly fitting safety goggles. Ensure eye bath is to hand.

**Skin protection:** Protective clothing.

## Section 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

**State:** Liquid

**Colour:** Colourless

**Odour:** Mild Citrus

**Evaporation rate:** No data available.

**Oxidising:** Not applicable.

**Solubility in water:** Emulsifiable

**Viscosity:** Not applicable.

**Boiling point/range °C:** No data available.

**Flammability limits %: lower:** No data available.

**Flash point °C:** 56

**Autoflammability °C:** No data available.

**Relative density:** 0.97

**VOC g/l:** No data available.

**Melting point/range °C:** No data available.

**upper:** No data available.

**Part.coeff. n-octanol/water:** No data available.

**Vapour pressure:** No data available.

**pH:** Not applicable.

### 9.2. Other information

**Other information:** No data available.

## Section 10: Stability and reactivity

### 10.1. Reactivity

**Reactivity:** Stable under recommended transport or storage conditions.

### 10.2. Chemical stability

**Chemical stability:** Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

**Hazardous reactions:** Hazardous reactions will not occur under normal transport or storage conditions.  
Decomposition may occur on exposure to conditions or materials listed below.

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## 10.4. Conditions to avoid

Conditions to avoid: Heat.

## 10.5. Incompatible materials

Materials to avoid: Strong oxidising agents. Strong acids.

## 10.6. Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes.

## Section 11: Toxicological information

### 11.1. Information on toxicological effects

Hazardous ingredients:

#### 2-(2-BUTOXYETHOXY)ETHANOL

ORL	MUS	LD50	6050	mg/kg
ORL	RAT	LD50	4500	mg/kg

#### (R)-P-MENTHA-1, 8-DIENE

DERMAL	RBT	LD50	>2000	mg/kg
ORAL	RAT	LD50	>5000	mg/kg

#### GAMMA BUTYROLACTONE

ORAL	RAT	LD50	1540	mg/kg
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#### C9-11 ALCOHOL ETHOXYLATE WITH 6.5MEO

DERMAL	RAT	LD50	>2000	mg/kg
ORAL	RAT	LD50	>300<2000	mg/kg

#### N,N-DIMETHYL 9-DECENAMIDE

ORAL	RAT	LD50	550	mg/kg
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#### C9-11 ALCOHOL ETHOXYLATE WITH 3MEO

ORAL	RAT	LD50	>2000	mg/kg
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Relevant hazards for product:

Hazard	Route	Basis
Skin corrosion/irritation	DRM	Hazardous: calculated
Serious eye damage/irritation	OPT	Hazardous: calculated
Respiratory/skin sensitisation	DRM	Hazardous: calculated

### Symptoms / routes of exposure

**Skin contact:** There may be irritation and redness at the site of contact.

**Eye contact:** There may be pain and redness. The eyes may water profusely. There may be severe pain. The vision may become blurred. May cause permanent damage.

**Ingestion:** There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur.

**Inhalation:** There may be irritation of the throat with a feeling of tightness in the chest.

**Delayed / immediate effects:** Immediate effects can be expected after short-term exposure.

[cont...]

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## Section 12: Ecological information

### 12.1. Toxicity

**Hazardous ingredients:**

#### (R)-P-MENTHA-1, 8-DIENE

Daphnia magna	48H EC50	0.4	mg/l
FISH	96H LC50	0.7	mg/l

#### (2-METHOXYMETHYLETHOXY)PROPANOL

ALGAE	72H IC50	>969	mg/l
DAPHNIA	48H EC50	1919	mg/l
FISH	96H LC50	>10000	mg/l

#### C9-11 ALCOHOL ETHOXYLATE WITH 6.5MEO

FISH	96H LC50	1-10	mg/l
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#### N,N-DIMETHYL 9-DECENAMIDE

DAPHNIA	48H EC50	2.8	mg/l
FISH	96H LC50	>7.5	mg/l

#### C9-11 ALCOHOL ETHOXYLATE WITH 3MEO

FISH	96H LC50	1-10	mg/l
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### 12.2. Persistence and degradability

**Persistence and degradability:** Biodegradable. The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

### 12.3. Bioaccumulative potential

**Bioaccumulative potential:** No bioaccumulation potential.

### 12.4. Mobility in soil

**Mobility:** Readily absorbed into soil.

### 12.5. Results of PBT and vPvB assessment

**PBT identification:** This product is not identified as a PBT/vPvB substance.

### 12.6. Other adverse effects

**Other adverse effects:** Negligible ecotoxicity.

## Section 13: Disposal considerations

### 13.1. Waste treatment methods

**Disposal operations:** Transfer to a suitable container and arrange for collection by specialised disposal company.

**NB:** The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

[cont...]

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**Section 14: Transport information**

**14.1. UN number**

UN number: UN1993

**14.2. UN proper shipping name**

Shipping name: FLAMMABLE LIQUID, N.O.S.  
((R)-P-MENTHA-1, 8-DIENE)

**14.3. Transport hazard class(es)**

Transport class: 3

**14.4. Packing group**

Packing group: III

**14.5. Environmental hazards**

Environmentally hazardous: Yes

Marine pollutant: No

**14.6. Special precautions for user**

Special precautions: No special precautions.

Tunnel code: D/E

Transport category: 3

**Section 15: Regulatory information**

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

**Specific regulations:** European Regulation (EC) No. 1272/2008 on Classification, Labelling and Packaging of Substances and Mixtures (known as 'CLP'). The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 aligned with ADR. Workplace Exposure Limits EH40.2005 (2nd edition published 2011). REACH: Regulation 1907/2006/EC effective June 1st, 2007. The raw materials used in this preparation have been pre-registered in accord with the requirements of REACH. Dangerous Preparations Directive (1999/45/EC).

**15.2. Chemical Safety Assessment**

**Chemical safety assessment:** A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

**Section 16: Other information**

**Other information**

**Other information:** This safety data sheet is prepared in accordance with Commission Regulation (EU) No 2015/830.

\* indicates text in the SDS which has changed since the last revision.

**Phrases used in s.2 and s.3:** H226: Flammable liquid and vapour.  
H302: Harmful if swallowed.  
H304: May be fatal if swallowed and enters airways.  
H315: Causes skin irritation.  
H317: May cause an allergic skin reaction.  
H318: Causes serious eye damage.  
H319: Causes serious eye irritation.  
H335: May cause respiratory irritation.

[cont...]

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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.

**Legal disclaimer:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.