

LEMSOLV INDUSTRIAL

Cleaning agent composed of organic solvents and surfactants

Created on: 10. 01. 2005

Reviewed on: 31. 03. 2010

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

Trade name	LEMSOLV INDUSTRIAL	
REACH registration	Preparation according to REACH Regulation (EC) No. 1907/2006	
Use	Cleaning agent composed of organic solvents and surfactants	
Supplier	RAW Handel und Beratungs GmbH Grünstraße 5 D-79232 March-Hugstetten Phone +49 (0) 7665 / 934 29 - 0 Fax +49 (0) 7665 / 934 29 - 25 These numbers will only be staffed during office hours.	
Responsible Person	Mr J. Wittstock,	Phone +49 (0) 7665 / 934 29 - 0 These numbers will only be staffed during office hours.
Qualified Person	Dipl.-Ing. M. Fischer,	Phone +49 (0) 7665 / 934 29 - 17 These numbers will only be staffed during office hours. E-mail: sdb@raw-vertrieb.de
Emergency information (24 h)	Poison Information Center in Bonn,	Phone +49 (0) 228 / 19240

2. HAZARD IDENTIFICATION

The preparation is classified as dangerous in the sense of 1999/45/EC.

The preparation is subject to labelling. In all cases please note the information of the Safety Data Sheet

Hazard symbol: X_n
Hazard warning label: Harmful to health

Particular risks for humans and the environment:

Possible adverse physical and chemical effects:

The product is flammable. Flash point 57 °C (closed cup).

Possible adverse effects on humans and possible symptoms:

Irritating to the eyes and skin. Prolonged or repeated exposition may lead to skin irritation and dermatitis, this due to the defatting properties of the product. Avoid contact with skin and eyes. Low risk from inhalation. Avoid inhalation of vapour e.g. on heating. Low order of acute oral toxicity but do not ingest. May cause lung damage if swallowed.

Possible adverse effects on the environment:

May cause adverse effects on the aquatic organism, long term effect.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterisation:

Cleaning agent composed of organic solvents and surfactants.

Hazardous ingredients:

Designation	EINECS	CAS No.	Conc. wt. %	Hazard symbol	R phrases	REACH
Orange terpene	232-433-8	8028-48-6	30 - 60	Xn	R10,38,65,52/53	Pre-registered – Date of registration: 30.11.2010
Dipropylene glycol monomethyl ether	252-104-2	34590-94-8	30 - 60	-	-	Pre-registered – Date of registration: 30.11.2010
Alcohol ethoxylate	-	-	5 - 10	Xn	R22,41	Pre-registered – Date of registration: 31.05.2018

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4. FIRST AID MEASURES

After inhalation:	Low risk when used as intended. After inhalatory exposure, remove the affected person to fresh air and keep warm and still. In case of accident or unwellness, seek medical advice immediately (show Directions for Use or Safety Data Sheet if possible).
After skin contact:	After skin contact, wash immediately with plenty of water. Remove contaminated clothing and launder before reuse.
After eye contact:	Rinse eyes with running water for at least 10 minutes holding eyelids well apart and obtain further medical assistance.
After ingestion:	Do not swallow, rinse mouth with water. Drink water. Do not induce vomiting. Consult a doctor.

5. FIRE FIGHTING MEASURES

General information:	The product itself is flammable.
Suitable extinguishing media:	Use extinguishing media appropriate to the source of the fire, e.g. water mist spray, carbon dioxide, dry powder, foam, etc. Do not use a strong water jet.
In case of fire:	Wear self-contained breathing apparatus. Wear protective clothing.

6. ACCIDENTAL RELEASE MEASURES

Person-specific precautionary measures:	Mark out the area of accidental release with signs. Prevent access to unauthorised people. Eliminate all sources of ignition.
Environmental measures:	Prevent discharge of large quantities to drain or water courses by means of containment measures.
Procedure for picking up / cleaning:	Pick up small quantities using a binding material for liquids. Contain large spills and pump up into containers. Flush contaminated areas with plenty of water. Collect contaminated water. Dispose of contaminated materials properly.

7. HANDLING AND STORAGE

Handling Information on safe handling	Observe general rules of health and safety at work as well as of industrial hygiene (see section 8).
Advice on fire and explosion protection	The product is flammable.
Storage Requirements for storage rooms and vessels	May be stored for periods up to 6 months in the original containers.

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8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Additional information on plant design: See section 7.

Components with occupational exposure limits requiring monitoring

CAS number	Substance	Type of limit:	Value, unit:
34590-94-8	Dipropylene glycol monomethyl ether	MAK =1=	310 mg/m ³

Personal protective equipment

Respiratory protection

In exceptional situations (e.g. if large quantities of material are accidentally released, if the exposure limit is exceeded), it is necessary to wear respiratory protective equipment. Observe time limits for wearing equipment.

Eye protection

Wear protective goggles or protective shield (face protection).

Hand protection

Gloves (nitrile or neoprene).

General protection

Ensure good ventilation. Don't eat, drink, smoke, sniff while working.

and hygiene measures

9. PHYSICAL AND CHEMICAL PROPERTIES

Density	0,86 g/cm ³
Vapour pressure	<5mm/Hg
Solubility in water	Dispersible at 20 °C
pH value	Not applicable
Flash point	57 °C (closed cup)

10. STABILITY AND REACTIVITY

Thermal decomposition / conditions to avoid

Stable under normal conditions of storage.
Avoid overheating closed containers.

Hazardous

decomposition products:

Carbon dioxide, carbon monoxide, smoke upon thermal decomposition.

Materials to avoid:

Strong oxidisers.

11. TOXICOLOGICAL INFORMATION

Sensitisation:

The product contains orange terpene. If unprotected, orange terpenes may form, by oxidation, substances, which are skin sensitisers. The product contains an anti-oxidant as a stabiliser.

Information:

Irritating to skin and eyes.

Ingestion:

Low acute toxicity. May cause irritation to mucous membranes in mouth, throat, stomach and intestine. May cause lung damage if swallowed.

Information on single components

Dipropylene glycol monomethyl ether	LD50 oral (rat): 5000 mg/kg
Orange terpene	LD50 oral (rat): 4400 mg/kg
Alcohol ethoxylate	Oral : 200 < LD50 <2000 mg/kg Dermal: LD50 > 2000 mg/kg Inhalation: LC50 >5 mg/l

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12. ECOLOGICAL INFORMATION

**Persistence/degradability
Accumulation**

All components are readily biodegradable
No bioaccumulation is expected.

Information on single components

Orange terpene
Alcohol ethoxylate

EC50 Daphnia Magna 48 h: 12,3 mg/l
Fish toxicity 1 < LC50 < 10 mg/l
Daphnia toxicity: 1 < LC50 < 10 mg/l
Algae toxicity: 1 < LC50 < 10 mg/l

13. DISPOSAL CONSIDERATIONS

Product

If reuse or recycling is not possible: Disposal in accordance with the Waste Recycling and Management Law (KrW-/AbfG).

14. TRANSPORT INFORMATION

Land transport (ADR/RID):

UN1993 FLAMMABLE LIQUID, N.O.S.
Dangerous goods class 3. Packing group III.
Flash point 57 °C (closed cup).

15. REGULATORY INFORMATION

Labelling in accordance with EC Directives:

Hazard symbol:

X_n

Hazard warning labelling:

Harmful to health

R phrases

R36/38

Irritating to eyes and skin

R52/53

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

R65

Harmful: may cause lung damage if swallowed.

S phrases

S 24

Avoid contact with skin.

S 26

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 61

Avoid release to the environment. Refer to special instructions/safety data sheets.

Occupational health and safety regulations

Regulations for the prevention of industrial accidents of the employers' liability insurance associations and Technical Rules for Hazardous Substances.

16. OTHER INFORMATION

The information given above is based on our present level of knowledge and does not constitute an assurance of properties. No claim is made to exhaustiveness. The information should only be considered a general guideline. Existing laws and regulations must be observed by the recipients of our product at their own responsibility. The company cannot be held responsible for damage resulting from the use of the product.