

## Material Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 08.08.2007

Revision: 12.12.2006

### 1 Identification of substance

- **Product details**
- **Trade name** Thinner V 101
- **Article number:** 0978
- **Application of the substance / the preparation** Thinner, Diluent
- **Manufacturer/Supplier:**  
Remmers Baustofftechnik GmbH  
Postfach 1255  
D-49624 Lönningen / Germany  
Tel.: 05432/83-0  
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- **Informing department:**  
Product Safety department: Tel.: +49 (0)5432/83-138/-538  
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during working hours:  
U.K.: Tel.: +44 (0) 845 373 0103  
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after working hours: Tel.: +49 (0)171/6428-297

### 2 Hazards identification

- **Hazard designation:**



Xn Harmful  
N Dangerous for the environment

- **Information pertaining to particular dangers for man and environment**

- R 10 Flammable.
- R 37 Irritating to respiratory system.
- R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R 65 Harmful: may cause lung damage if swallowed.
- R 66 Repeated exposure may cause skin dryness or cracking.
- R 67 Vapours may cause drowsiness and dizziness.

- **Classification system**

The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

### 3 Composition/information on ingredients

- **Chemical characterization**
- **Description:** Solvent mixture.

- **Dangerous components:**

	Solvent naphtha (mineral oil), slight aromatic Xn, Xi, N; R 10-37-51/53-65-66-67	80-<100%
CAS: 108-65-6 EINECS: 203-603-9	2-methoxy-1-methylethyl acetate Xi; R 10-36	5-<10%

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· **Additional information** For the wording of the listed risk phrases refer to section 16.

#### 4 First aid measures

· **General information**

Immediately remove any clothing soiled by the product.

In case of irregular breathing or respiratory arrest, provide artificial respiration.

· **After inhalation**

Take affected persons into the open air and position comfortably

Seek medical treatment in case of complaints.

In case of unconsciousness bring patient into stable side position for transport.

· **After skin contact**

Wash immediately with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

· **After eye contact** Rinse opened eye for several minutes under running water.

· **After swallowing** Do not induce vomiting. Do not give anything to drink. Call a doctor immediately!

· **Information for doctor**

· **The following symptoms may occur:**

In case of prolonged/repeated exposure or in high concentrations:

Headache

Dizziness

nausea

Unconsciousness

Inhalation may have an irritating effect on mucous membranes.

Skin contact may cause irritation.

Dry skin

Eye contact may cause temporary pain.

· **Danger**

Swallowing followed by vomiting may lead to aspiration into the lungs which leads to suffocation or toxic pulmonary oedema.

Long-term or repeated exposure may cause inflammation of the skin (dermatitis).

· **Treatment**

symptomatic treatment

To avoid dermatitis (skin inflammation), use skin cream.

#### 5 Fire fighting measures

· **Suitable extinguishing agents**

Foam

Water spray jet

Water mist

Dry extinguishing agents, carbon dioxide, sand or earth should only be used for small fires.

· **For safety reasons unsuitable extinguishing agents** Water with a full water jet.

· **Special hazards caused by the material, its products of combustion or flue gases:**

May be released in case of fire

Carbon monoxide (CO)

(in case of incomplete combustion)

Floats on the surface of water and can reignite.

Fumes are heavier than air and spread out over the ground. Ignition over greater distance is possible.

· **Protective equipment:**

Wear full protective suit.

Wear self-contained breathing apparatus.

· **Additional information**

Cool endangered containers with water spray jet.

Use large quantities of foam as it is partially destroyed by the product.

Collect contaminated fire fighting water separately. It must not enter drains.

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Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

## 6 Accidental release measures

- **Person-related safety precautions:**

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Keep away from ignition sources

- **Measures for environmental protection:**

Do not allow product to reach sewage system or water bodies.

Do not allow to enter the ground/soil.

- **Measures for cleaning/collecting:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Send for recovery or disposal in suitable containers.

Clean soiled surfaces with detergent.

Treat washing liquid as special refuse.

Ensure adequate ventilation.

Place leaking containers in a marked drum or recovery drum.

- **Additional information:**

See Section 13 for information on disposal.

Danger of explosion. Inform fire department and Water Conservation Office if liquid runs off into sewers.

Fumes can combine with air to form an explosive mixture.

## 7 Handling and storage

- **Handling**

- **Information for safe handling:**

Use only in well ventilated areas.

Avoid prolonged or repeated skin contact. Avoid breathing fumes or sprayed mist. Extinguish all open flames, remove sources of ignition, avoid the formation of sparks. Do not smoke. Take precautionary measures against electrostatic charges. Ground all facilities. Do not empty product into waste water drains.

- **Information about protection against explosions and fires:**

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Fumes can combine with air to form an explosive mixture.

- **Storage**

- **Requirements to be met by storerooms and containers:** Store in cool location.

- **Information on storage in a common storage facility:**

Suitable material for containers and pipes: Light metals and their alloys.

- **Further information about storage conditions:**

Store cool and dry in tightly closed containers.

Store container in a well ventilated position.

Protect from heat and direct sunlight.

Do not smoke in storage areas. Storage temperature: room temperature.

## 8 Exposure controls and personal protection

- **Additional information about design of technical systems:** Use only in well-ventilated areas.

- **Components with limit values that require monitoring at the workplace:**

**108-65-6 2-methoxy-1-methylethyl acetate**

WEL Short-term value: 548 mg/m<sup>3</sup>, 100 ppm

Long-term value: 274 mg/m<sup>3</sup>, 50 ppm

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- **Additional information:** The lists that were valid during compilation were used as a basis.

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- **Personal protective equipment**
- **General protective and hygienic measures**  
Immediately remove soiled, saturated clothing.  
Keep away from food, beverages and animal feed.  
Do not eat, drink or smoke while working.  
Apply solvent-resistant skin protection preparation before beginning work.  
Wash hands before pauses and after work.  
Avoid contact with eyes and skin.  
Do not inhale gases / vapours / aerosols.
- **Respiratory equipment:**  
In case of a risk of inhaling, wear half-mask with combination filter for organic vapours and particles.  
Short term filter device:  
Filter A/P2.  
Only use ambient air independent respiratory equipment in pits, shafts and silos!
- **Protection of hands:** Solvent resistant gloves
- **Material of gloves:** Nitrile rubber, NBR
- **Penetration time of glove material**  
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Tightly sealed safety glasses.
- **Body protection:** Protective work clothing.

## 9 Physical and chemical properties:

· <b>General Information</b>	
<b>Form:</b>	Fluid
<b>Colour:</b>	clear
<b>Odour:</b>	Aromatic
· <b>Change in condition</b>	
<b>Melting point/Melting range:</b>	Not determined
<b>Boiling point/Boiling range:</b>	167 - 180°C solvent naphtha light
· <b>Flash point:</b>	48°C
· <b>Ignition temperature:</b>	485°C solvent naphtha light
· <b>Danger of explosion:</b>	Product is not explosive. However, formation of dangerous explosive vapour/air mixtures is possible.
· <b>Explosive Limits:</b>	
<b>Lower:</b>	0.8 Vol % solvent naphtha light
<b>Upper:</b>	6 Vol % solvent naphtha light
· <b>Vapour pressure at 20°C:</b>	3 hPa solvent naphtha light
· <b>Density at 20°C</b>	0.870 g/cm <sup>3</sup>
· <b>Solubility in / Miscibility with Water:</b>	Insoluble
· <b>Distribution coefficient (n-octanol/water):</b>	3.7 - 4.5 log POW solvent naphtha light

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- |  |  |
|--|--|
| <b>· Viscosity:</b><br>kinematic at 20°C:      | 9 s (DIN 53211/4)<br>bei 20 ° C 5 s    DIN 53211/6 |
| <b>· Solvent content:</b><br>Organic solvents: | 100.0 %  |

## 10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.  
No decomposition if handled and stored according to specifications.  
Avoid: heat, flames, sparks
- **Materials to be avoided:** Strong oxidising agents
- **Dangerous decomposition products:** No dangerous decomposition products known

## 11 Toxicological information

- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

### Solvent naphtha (mineral oil), slight aromatic

Oral	LD50	> 2000 mg/kg (Ratte)
Dermal	LD50	> 2000 mg/kg (Kaninchen)
Inhalative	LC50/4 h	> 5 mg/l (Ratte)

- **Primary irritant effect:**
- **on the skin:**  
No irritating effect.  
Dries skin out.
- **on the eye:** No irritating effect.
- **Sensitisation:** No sensitising effect known.
- **Experience with humans:**  
Irritating effect on respiratory organs.  
Frequent or longer lasting skin contact may degrease and dry out skin which may lead to skin irritation and inflammation (dermatitis).  
Contact with eyes causes pain.  
After swallowing and subsequent vomiting, aspiration into the lungs may occur which leads to suffocation or toxic lung oedema.  
High concentrations may cause tiredness and dizziness.

## 12 Ecological information:

- **Information on elimination (persistence and degradability):**
- **Other information:**  
Data for solvent naphtha light:  
Readily biodegradable. Fast photochemical oxidation in air. Half-life value in the environment: < 1 day (estimated).  
Data for 2-methoxy-1-methylethyl acetate  
Degree of elimination: > 70%  
Test method:        OECD 302B/ISO 9888/EEC 88/302, C  
Analysis method:    DOC reduction  
Rating:                easily eliminated from water, biodegradable

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- **Behaviour in environmental systems:**
- **Mobility and bioaccumulation potential:**  
Data for solvent naphtha light:  
Disperse quickly in air. Floats on water surfaces. It evaporates from water or ground surfaces within one day. It is adsorbed by the ground and is not mobile. Bioaccumulation is potentially possible.
- **Ecotoxic effects:**
- **Acquatic toxicity:**
- **Type of test Effective concentration Method Assessment**  
Data for solvent naphtha light:  
Acute toxicity to fish           1 < LC/EC/IC-50 < 10 mg/l   toxic  
Acute toxicity (invertebrates) 1 < LC/EC/IC-50 < 10 mg/l   toxic  
Acute toxicity to alga           1 < LC/EC/IC-50 < 10 mg/l   toxic  
Data for 2-methoxy-1-methyl ethyl acetate:  
Toxicity to fish:  
Oncorhynchus mykiss           LC-50 : > 100 < 18 mg/l/96 h  
Toxicity to Daphnia (acute):  
Daphnia magna                 EC/LC-50: > 500 mg/l/48 h
- **Remark:**  
Data for solvent naphtha light:  
LC/EC/IC-50 > 100 mg/l Practically no toxic effect (estimated).
- **Other information:**  
Data for solvent naphtha light:  
Due to the rapid evaporation of the solvent, the product does not present a significant hazard to water organisms.
- **General notes:**  
Water hazard class 2 : hazardous to water.  
Do not allow product to reach ground water, bodies of water or sewage system.

**13 Notes on disposal:**

- **Product:**
- **Recommendation**  
Do not dispose of together with household garbage. Do not allow product to reach sewage system.

· **European waste catalogue**

07 00 00	WASTES FROM ORGANIC CHEMICAL PROCESSES
07 06 00	wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics
07 06 04	other organic solvents, washing liquids and mother liquors

- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

**14 Transport information**

- **Land transport ADR/RID and GGVS/GGVE (cross-border/domestic)**



- **ADR/RID-GGVS/E Class:** 3 (F1) Flammable liquids.
- **Kemler Number:** 30
- **UN-Number:** 1263
- **Packaging group:** III
- **Danger sign:** 3
- **Designation of goods:** 1263 PAINT RELATED MATERIAL
- **Limited quantities (LQ)** LQ7

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- Tunnel restriction code E
- Remarks: TREM-Card No. 33

- Maritime transport IMDG/GGVSea:



- IMDG/GGVSea Class: 3
- UN Number: 1263
- Label: 3
- Packaging group: III
- EMS Number: F-E,S-E
- Marine pollutant: mp
- Correct technical name: PAINT RELATED MATERIAL

- Air transport ICAO-TI and IATA-DGR:



- ICAO/IATA Class: 3
- UN/ID Number: 1263
- Label: 3
- Packaging group: III
- Correct technical name: PAINT RELATED MATERIAL

## 15 Regulatory information

- Designation according to EC guidelines:

The product has been classified and labelled in accordance with EC Guidelines / Ordinance on Hazardous Materials (GefStoffV)

- Code letter and hazard designation of product:



Xn Harmful  
N Dangerous for the environment

- Hazard-determining components of labelling:

Solvent naphtha (mineral oil), slight aromatic

- Risk phrases:

- 10 Flammable.
- 37 Irritating to respiratory system.
- 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- 65 Harmful: may cause lung damage if swallowed.
- 66 Repeated exposure may cause skin dryness or cracking.
- 67 Vapours may cause drowsiness and dizziness.

- Safety phrases:

- 2 Keep out of the reach of children.
- 23 Do not breathe fumes/aerosol.
- 24 Avoid contact with skin.
- 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
- 51 Use only in well-ventilated areas.
- 61 Avoid release to the environment. Refer to special instructions/safety data sheets.
- 62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

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- **National regulations**

- **Ordinance on hazardous incidents (StFV):**

Threshold quantity according to the ordinance on incidents should be observed.  
Material group 3 (flammable liquids)

- **Technical instructions (air):**

Class	Proportion in %
NK	80-<100

- **Water hazard class:**

Water hazard class 2: hazardous to water.  
according to appendix 4 VwVwS

- **Other regulations, limitations and prohibition ordinances**

- **Professional Association (BG) Code of Practice:**

M 017 "Solvents"  
M 050 "Handling harmful substances"  
M 004 "Irritating substances/corrosive substances"

## 16 Other information:

This data is based on our present state of knowledge. However, it does not constitute a guarantee for any specific product features and does not establish a legally valid contractual relationship.  
Delivery specifications are found in the respective Technical Information Sheets.

- **Relevant R-phrases**

10 Flammable.  
36 Irritating to eyes.  
37 Irritating to respiratory system.  
51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
65 Harmful: may cause lung damage if swallowed.  
66 Repeated exposure may cause skin dryness or cracking.  
67 Vapours may cause drowsiness and dizziness.

- **Department issuing data specification sheet:** Product Safety department

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