

## Material Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 28.01.2009

Revision: 04.08.2008

### 1 Identification of substance

- **Product details**
- **Trade name** Impregnation Primer
- **Article number:** 0642
- **Application of the substance / the preparation** Impregnation
- **Manufacturer/Supplier:**  
Remmers Baustofftechnik GmbH  
Postfach 1255  
D-49624 Lönningen / Germany  
Tel.: 05432/83-0  
Fax: 05432/3985
- **Informing department:**  
Product Safety department: Tel.: +49 (0)5432/83-138/-538  
E-Mail: sales@remmers.co.uk
- **Emergency information:**  
during working hours:  
U.K.: Tel.: +44 (0) 845 373 0103  
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Head Office Germany: Tel.: +49 (0)5432 83 185  
after working hours: Tel.: +49 (0)171/6428-297

### 2 Hazards identification

- **Hazard designation:**



Xi Irritant  
F Highly flammable

- **Information pertaining to particular dangers for man and environment**  
R 11 Highly flammable.  
R 36 Irritating to eyes.  
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:** Low molecular alkyl alkoxy siloxane in isopropyl alcohol

- **Dangerous components:**

CAS: 67-63-0	propan-2-ol	Xi, F; R 11-36-67	80-100%
EINECS: 200-661-7			
	Alkylalkoxysiloxan	R 10	2.5-5%

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

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#### 4 First aid measures

- **General information**

If symptoms occur or in case of doubt, seek medical attention. In case of unconsciousness, do not administer anything orally.

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.

Call a doctor immediately.

- **After swallowing**

Do not induce vomiting. In case of prolonged discomfort, see a doctor. If the patient is conscious, give water to drink.

- **Information for doctor** The general effect is comparable to that of ethanol.

- **The following symptoms may occur:**

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

Headache

Dizziness

nausea

Dry skin

Excessive contact with skin, eyes or respiratory system may cause irritation.

Unconsciousness

Swallowing may cause a narcotic effect and unconsciousness.

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

- **Treatment**

In contact with water (also in the digestive tract) the product splits off methanol in larger quantities. Therefore methanol intoxication and a respective latency period of several days must be taken into consideration.

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

#### 5 Fire fighting measures

- **Suitable extinguishing agents**

Alcohol-resistant 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)

Under certain fire conditions, traces of other toxic substances cannot be excluded.

Conflagration gases from organic materials are always rated toxic for breathing.

Vapours are heavier than air and spread out over the ground. Ignition over greater distances is possible.

- **Protective equipment:**

Wear full protective suit.

Wear self-contained breathing apparatus.

- **Additional information**

Cool endangered containers with water spray jet.

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.  
Prevent from spreading (e.g. by confining or oil barrier).  
Inform responsible authorities if the product penetrates into the ground.  
Inform responsible authorities in case product reaches bodies of water or sewage system.

### · **Measures for cleaning/collecting:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Send for recovery or disposal in suitable containers.  
Place leaking containers in a marked drum or recovery drum.  
Ensure adequate ventilation.

### · **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.  
Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).  
Avoid the formation of aerosols.  
Open and handle container with care.

#### · **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:**

Do not store together with fire promoting and self-igniting materials

#### · **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.  
Protect from humidity and keep away from water.  
Protect from frost.  
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.

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

**67-63-0 propan-2-ol**

WEL	Short-term value: 1250 mg/m <sup>3</sup> , 500 ppm Long-term value: 999 mg/m <sup>3</sup> , 400 ppm
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· **Additional information:** The lists that were valid during compilation were used as a basis.

· **Personal protective equipment**

· **General protective and hygienic measures**

Immediately remove soiled, saturated clothing.

Store protective clothing separately.

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 insufficient ventilation, use respiratory protection:

Respiratory protection if there is a risk of splashes/mist.

In case of high concentrations, use respiratory protection.

Short term filter device:

Filter A (brown)

· **Protection of hands:** Solvent resistant gloves

· **Material of gloves** Nitrile rubber, NBR

· **Penetration time of glove material**

Break through time: max. 240 min (DIN EN 374).

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:**

· **General Information**

<b>Form:</b>	Fluid
<b>Colour:</b>	clear
<b>Odour:</b>	Alcohol-like

· **Change in condition**

<b>Melting point/Melting range:</b>	Not determined
<b>Boiling point/Boiling range:</b>	ca. 82°C isopropanol

· **Flash point:**

ca. 15°C

· **Ignition temperature:**

ca. 425°C  
isopropanol

· **Danger of explosion:**

Product is not explosive. However, formation of dangerous explosive vapour/air mixtures is possible.

· **Explosive Limits:**

<b>Lower:</b>	2 Vol % isopropanol
<b>Upper:</b>	12 Vol % isopropanol

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· <b>Vapour pressure at 20°C:</b>	41 hPa isopropanol
· <b>Density at 20°C</b>	ca. 0.8 g/cm <sup>3</sup>
· <b>Solubility in / Miscibility with Water:</b>	Partly miscible
· <b>Distribution coefficient (n-octanol/water):</b>	0.05 log POW isopropanol
· <b>Viscosity: dynamic at 20°C:</b>	ca. 2 - 3 mPas
· <b>Solvent content: Organic solvents:</b>	96.0 %

## 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  
strong acids
- **Dangerous reactions**  
Reacts with strong acids  
Reacts with strong oxidising agents  
Used empty containers may contain product gases which form explosive mixtures with air  
Reacts with water forming methanol.
- **Dangerous decomposition products:**  
None if used properly.  
None if stored properly.  
Through humidity, water and protic agents: methanol

## 11 Toxicological information

- **Acute toxicity:**

### · LD/LC50 values that are relevant for classification:

Oral	LD50	4570 mg/kg (Ratte)
Dermal	LD50	13400 mg/kg (rab)
Inhalative	LC50/4 h	30 mg/l (Ratte)

### 67-63-0 propan-2-ol

Oral	LD50	4570 mg/kg (Ratte)
Dermal	LD50	13400 mg/kg (rab)
Inhalative	LC50/4 h	30 mg/l (Ratte)

- **Primary irritant effect:**
- **on the skin:**  
No irritating effect.  
Dries skin out.
- **on the eye:** Irritating effect.
- **Sensitisation:** The product may have a sensitising effect on sensitive persons.

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· **Experience with humans:**

Frequent or longer lasting skin contact may degrease and dry out skin which may lead to skin irritation and inflammation (dermatitis).

Data for isopropyl alcohol:

Repeated exposure may cause allergic contact eczema.

High concentrations may cause tiredness and dizziness.

· **Additional toxicological information:**

Inhalation of concentrated vapours as well as oral intake will lead to an anaesthesia-like state and headaches, dizziness, etc.

Avoid exposure inhalation!

Caution! The product may hydrolyse in the gastro-intestinal tract and release methanol. According to literature, methanol (67-56-1) dries skin out, irritates mucous membranes and has a narcotic effect that can lead to coma or death. Skin resorption possible. After a delay in time, damage to heart, kidneys, liver and optic nerve (blindness) may occur.

Alkoxy silane: Do not inhale aerosol mist because of the risk of lung damage.

## 12 Ecological information:

· **Information on elimination (persistence and degradability):**

· **Other information:**

By hydrolysis: methanol and silanol and/or siloxanol compounds.

Data for isopropyl alcohol:

Readily biodegradable within the scope of a 10 day time frame. Degradable under anaerobic conditions (estimated). Fast photochemical oxidation in air. Half-life in the environment: 1-<10 days (estimated).

Predominate loss through biological degradation. Danger of oxygen depletion in aquatic mediums.

· **Behaviour in environmental systems:**

· **Mobility and bioaccumulation potential:**

Data for isopropyl alcohol:

Dissolves in water. Disappears by evaporation and disintegration within one day. If larger amounts are released, these can penetrate into the ground and pollute ground water. No essential bioaccumulation.

· **Ecotoxic effects:**

· **Acquatic toxicity:**

· **Type of test Effective concentration Method Assessment**

Data for isopropyl alcohol:

Fish 100<LC-50/EC-50/IC-50≤1000 mg/l, practically non-toxic

Invertebrates LC-50/EC-50/IC-50>1000 mg/l practically non-toxic

Bacteria LC-50/EC-50/IC-50>1000 mg/l practically non-toxic

Alga LC-50/EC-50/IC-50>1000 mg/l practically no toxic effect (estimated)

· **Behaviour in sewage processing plants:**

· **Type of test Effective concentration Method Assessment**

Data for isopropyl alcohol:

LC-50/EC-50/IC-50 > 1000 mg/l practically non-toxic

· **General notes:**

Water hazard class 1 : slightly hazardous to water.

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

according to appendix 4 VwVwS

## 13 Notes on disposal:

· **Product:**

· **Recommendation**

Do not dispose of together with household garbage. Do not allow product to reach sewage system.

Liquid material remains are to be disposed of at collection facilities for old varnishes.

The given refuse codes are recommendations based upon the intended use of the product. Because of special use and disposal conditions at the user's, other codes may apply under other conditions.

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· <b>European waste catalogue</b>	
07 00 00	WASTES FROM ORGANIC CHEMICAL PROCESSES
07 01 00	wastes from the manufacture, formulation, supply and use (MFSU) of basic organic chemicals
07 01 04	other organic solvents, washing liquids and mother liquors

- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleaning agent:** Water, if necessary with cleaning agent.

## 14 Transport information

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



- **ADR/RID-GGVS/E Class:** 3 (F1) Flammable liquids.
- **Kemler Number:** 33
- **UN-Number:** 1993
- **Packaging group:** II
- **Danger sign:** 3
- **Designation of goods:** 1993 FLAMMABLE LIQUID, N.O.S. (ISOPROPANOL (ISOPROPYL ALCOHOL))
- **Remarks:** TREM-Card No. 32

- **Maritime transport IMDG/GGVSea:**



- **IMDG/GGVSea Class:** 3
- **UN Number:** 1993
- **Label:** 3
- **Packaging group:** II
- **EMS Number:** F-E,S-E
- **Marine pollutant:** -
- **Correct technical name:** FLAMMABLE LIQUID, N.O.S. (ISOPROPANOL (ISOPROPYL ALCOHOL))

- **Air transport ICAO-TI and IATA-DGR:**



- **ICAO/IATA Class:** 3
- **UN/ID Number:** 1993
- **Label:** 3
- **Packaging group:** II
- **Correct technical name:** FLAMMABLE LIQUID, N.O.S. (ISOPROPANOL (ISOPROPYL ALCOHOL))

## 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)

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· **Code letter and hazard designation of product:**

Xi Irritant  
F Highly flammable

· **Risk phrases:**

- 11 Highly flammable.
- 36 Irritating to eyes.
- 67 Vapours may cause drowsiness and dizziness.

· **Safety phrases:**

- 2 Keep out of the reach of children.
- 23 Do not breathe fumes/aerosol.
- 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- 28 After contact with skin, wash immediately with plenty of soap and water.
- 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
- 38 In case of insufficient ventilation, wear suitable respiratory equipment.
- 46 If swallowed, seek medical advice immediately and show this container or label.
- 51 Use only in well-ventilated areas.

· **Product Code:** M-GF 05· **National regulations**· **Information on employment restrictions:** Employment restrictions must be observed· **Ordinance on hazardous incidents (StFV):**

Threshold quantity according to the ordinance on incidents should be observed.

· **Water hazard class:**

Water hazard class 1: slightly hazardous to water.  
according to appendix 4 VwVwS

· **Other regulations, limitations and prohibition ordinances**· **Professional Association (BG) Code of Practice:**

- M 017 "Solvents"
- 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.
- 11 Highly flammable.
- 36 Irritating to eyes.
- 67 Vapours may cause drowsiness and dizziness.

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