

# Safety Data Sheet

according to (EG) 1907/2006

**IM4500** 

Revision-Nr: 5

Date of issue : 30.01.1996

05.04.2012 Last change: Changes are characterized by a

marginal vertical line

This sheet supersedes the one dated: 14.09.2010

## 1. Chemical Product and Company Identification

#### **Product Data**

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- Trade name Impregnation resin IM4500

- Article No

- Composition No

- Use of the Substance/Preparation Impregnation resin to seal porous cast parts - Manufacture's name / Supplier

Internationale Metall IMPrägnier GmbH

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Germany

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- Respondent +49(0)2173/49985-12 - Emergency telephone number +49(0)2173/49985-12 - Internet http://www.imp-sealants.de

#### 2. Hazard Identification

- For humans (Supplementing data see

section 11)

- For materials

Irritations to eyes, respiratory system and skin. Longer contact may cause slight skin irritations,

sensitization is possible.

- For environment

Very toxic to aquatic organisms may cause longterm adverse effects in the aquatic environment.

not known

## 3. Composition / Information on Ingredients

- Chemical name

Mixture of mono- and polyfunctional acrylate-, methacrylate- monomers

- Dangerous ingredients

- CAS-No.

methacrylicesters not applicable not applicable

- Identification number - EINECS-No. not applicable

#### 4. First Aid Measures

- General reference Avoid contact

- After inhalation Take person out of the contaminated area.

Remove patient to fresh air.

- After skin contact Take off all contaminated clothing.

Wash with soap and water and rinse with water. - After eye contact

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

Wash out with water and drink a lot of water. Do - After ingestion

NOT induce vomiting, seek immediate medical

advice.

- Indications for the doctor none - Special equipment for the first aid none

## 5. Fire Fighting Measures

- Extinguishing media

- suitable Water, carbon dioxide, foam, powder

- not suitable Water jet

- Special protective equipment Wear individual breathing apparatus. Wear

suitable protective clothing, gloves and eye/face

protection.



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- Dangerous combustion products

Carbon dioxide, carbon monoxide, methacrylic

acid, acrylic acid

- Further indications

In case of fire and/or explosion do not breathe fumes. Cool the container with sprayed water to avoid polymerisation. Eliminate hot points.

#### 6. Accidental Release Measures

- Personal precautions

Avoid contact. Wear protective equipment (section

8).

- Environmental precautions

Do NOT discharge in drains and sewers. Do not allow this chemical to enter the environment. Impurity of the ground-water by the material is to be avoided. Inform authorities if major spillage occurs. Spray the area with water after absorbing the

greatest amount of material. Recover product by absorbing with sand, earth or vermiculite. Collect

the product in a container pending future

destruction. not known

- Further Indications

- Cleaning methods

## 7. Handling and Storage

- Handling

- Protection of fire and explosion

- Storage

- Recommendations for storage buildings and cans, drums or containers

Avoid contact with skin and eyes. When using do

not eat, drink or smoke. No special handling required.

Respect the advised storage time under 35°C non catalyzed resin under 25°C catalyzed resin

Make sure of the presence of air and inhibitor in the drums or containers. Do not overfill cans, drums or containers (max. 90%). Keep only in the original container at temperature not exceeding 35°C. Keep in tightly closed containers and keep container dry. Avoid direct sunlight, UV radiation

and strong oxidizers.

- To Avoid: Incompatible Materials

Keep container away from oxidizing materials,

Do NOT keep under inert gas (nitrogen, ...).

acids, bases.

- Further recommendations for storage

conditions

11 (VCI-Concept) Storage class

## 8. Exposure Controls / Personal Protection

- Recommendation for plants

- Further recommendations

and hygiene measures)

- Protective equipment (General preventive

- Inhalation protection

- Skin and hand protection

Good ventilation. Provide Protection equipment in accordance with point "Protective equipment" none

Avoid contact with skin and eyes. Take off all contaminated clothing. When using do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product.

Local ventilation is recommended.

Do not use natural rubber gloves. Wear nitrile gloves (thickness>0.5 mm). Replace gloves immediately when torn or any change in appearance (dimension, colour, flexibility, etc) is noticed. Wear a face-shield or chemical goggles.

Wear protective clothing.

- Eve protection - Body protection



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### 9. Physical and Chemical Properties

- Appearance liquid - Color vellow - Odour ester-like

- Change of Conditions

- Melting point not known

- Boiling point 66°C at 1,33mbar - Flash point 102°C DIN 51758 - Ignition temperature not applicable

no danger of explosion - Explosion

- Vapor pressure 0.1mbar at 20°C, 1,3 mbar at 66°C - Density  $0,94 \text{ g/ml} \pm 0,01 \text{ g/ml} \text{ at } 20^{\circ}\text{C}$ 

- Solubility in water 100 g/l at 20°C

- Solubility in organic solvents completely soluble in most organic solvents

- pH-Value 6 - 7 10 g/l

- Viscosity 10 mPas ± 1 mPas at 20 °C

### 10. Stability and Reactivity

- Stability Stable under normal storage condition (section 7).

- Conditions to avoid Direct UV/sunlight, strong heat, absence of oxygen - Dangerous reaction with Strong oxidizing agents (e.g. peroxides).

Concentrated bases and acids. Free radical

- Hazardous decomposition products No hazardous products under according regulation

usage. By thermal decomposition, risk of formation of acid fumes, carbon monoxide and carbon

dioxide. Toxic substances.

Polymerization may occur with the development of - Hazardous Polymerization strong heat.

#### 11. Toxicological Information

- Acute toxicity data

- Inhalation (LC<sub>50</sub> Rat, [mg /l / 4h]) unavailable - Ingestion (LC<sub>50</sub> Rat, [mg / kg]) 11200 - Skin contact (LC<sub>50</sub> Rat, [mg / kg]) unavailable

- Caustic effect(Skin / Eye) Irritations to eyes and skin.

 Sensitization Sensitization by skin contact possible.

Sub acute / chronic toxicity data

- Carcinogenic unavailable - Mutagenic unavailable - Teratogenic unavailable unavailable - Narcotic effect

**Experiences from the practice** 

- Observations for classification none - Other observations none

- General remarks Classification according to method of calculation.

#### 12. Ecological Information

- Ecotoxic effect, aqua toxic effect No data available - Behaviour in the compartments of the No data available environment.

- Information on elimination May cause long-term adverse effects in the

aquatic environment.



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- Further information's on ecology

CSB - Value, mg/g BSB<sub>5</sub> - Value, mg/g **AOX** - indication

Significant components Other harmful effects

Fast degradable Not available Not available

Product does not contain halogen

Dodecylmethacrylate

none

## 13. Disposal Consideration

- Product: Resin polymerized

- EWC-Code 17 02 03 - Name **Plastics** - Disposal recommendation normal waste

- Product: Resin liquid (not polymerized)

- EWC-Code 20 01 27

- Name Paints, Printing-colours, Glue and Plastics - Disposal recommendation Special waste, elimination by combustion

recommended.

- Dirty package Return empty and cleaned plastic drums, cans and

containers back to IMP.

- Further recommendations none

### 14. Transport information

- Land transport (Classification ADR Classificatio **Packaging** Code UN-Class and RID) Remarks n code danger No group 9 90 M6 Ш 3082

- Information's for transport documents and packaging

| Volume or Mass                  |                          |            |                                  |
|---------------------------------|--------------------------|------------|----------------------------------|
|                                 | Name and description     | Etiquette  | Packaging Code<br>or instruction |
| - up to 5 I per inner packaging | UN 3082 Dangerous        |            |                                  |
| and 30 kg per parcel            | good for environment,    | <b>n</b> 0 | /40                              |
|                                 | liquid, n.o.s. (contains | n.a.       | -/4G                             |
|                                 | Dodecylmethacrylate)     |            |                                  |
| - IBC etc.                      | UN 3082 Dangerous        |            |                                  |
|                                 | good for environment,    | 9          | 3H1/Z                            |
|                                 | liquid, n.o.s. (contains | 9          | JI 1 1/Z                         |

- Transport by inland waterway (Classification ADNR)

Classification was not made.

Dodecylmethacrylate)

Packaging group - Sea transport (Classification IMDG) Class UN-No Remarks 9 3082 Ш - EmS-No. F-A, S-F

- Marine pollutant yes - Instructions for responsible

statement and labelling Name of the exact transport

Etiquette

Dangerous good for environment,

liquid, n.o.s. (contains Dodecylmethacrylate) Environmentally hazardous & marine pollutant

Remarks None



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- Air transport (Classification IATA

DGR / ICAO - TI)

- Instructions for responsible statement and labelling

Name of the exact transport

- Etiquette

- Note of packaging plane

Environmentally hazardous substance, liquid, n.o.s.

**UN-No** 

3082

(contains: Dodecylmethacrylate)

Environmentally hazardous Cargo

**Passenger** 914

914

- Remarks none

## 15. Regulatory Information

- Classified according to EEC directives

- Letter of classification

The product is classified as an irritant by EEC regulations of dangerous products. Exceptions are applicable.



and skin.



- R-Sentences

- S-Sentences

National regulations

- VbF

- Air pollution regulations

- TA-Air

- Class; No; Amount m%

- Water pollution class

Xi - irritant N - dangerous for the environment R 36/37/38 - Irritation to eyes, respiratory system

R 43 - Sensitization is possible.

R 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S 2 - Keep out of reach of children.

S 26 - In case of contact with eyes rinse immediately with plenty of water and seek medical advice.

S 28 - After contact with skin wash with water and

S 37/39 Wear suitable gloves and eye/face protection.

S 60 - This material and/or its container must be disposed of as hazardous waste

S 61 - Avoid release to the environment. Refer to special instructions/Safety data sheets.

not applicable not classified

Class II; 5.2.5; 50-70

#### 16. Other Information

The information above is believed to be correct but does not purpose to be all inclusive and shall only be used as a guide. IMP shall not be held liable for any damage resulting from the handling or from contact with the above material.

- Contact person: Dr. Tolksdorf