

Material Safety Data Sheet

According to 91/155 EEC

Printing date 08.08.2006

Reviewed on 03.08.2004

1 Identification of substance

- **Product details**
- **Trade name** Aida Masonry Injection
- **Article number:** 0313
- **Application of the substance / the preparation** Anti-moisture agent
- **Manufacturer/Supplier:**
Remmers Baustofftechnik GmbH
Postfach 1255
D-49624 Lönigen
Tel.: 05432/83-0
Fax: 05432/3985
- **Informing department:** Product Safety department: Tel.: 05432/83-138/-538
- **Emergency information:**
during working hours:
U.K.: Tel.: +44 (0) 845 373 0103
Far East: Tel.: +65 67410277
Head Office Germany: Tel.: +49 (0)5432 83 185
after working hours: Tel.: +49 (0)171/6428-297

2 Composition/Data on components:

- **Chemical characterization**
- **Description:** Alkyl silicone resin with alkoxy groups

- **Dangerous components:**

	Acetat von methoxyfunktionellem Polydimethylsiloxan mit Aminoalkylgruppen Xi; R 36	<50.0%
CAS: 78-10-4 EINECS: 201-083-8	tetraethyl orthosilicate Xn; R 10-20-36/37	<20.0%
CAS: 67-56-1 EINECS: 200-659-6	methanol T, F; R 11-23/24/25-39/23/24/25	<1.0%

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

3 Hazards identification

- **Hazard designation:**



Xi Irritant

- **Information pertaining to particular dangers for man and environment**
R 10 Flammable.
R 38 Irritating to skin.
R 41 Risk of serious damage to eyes.
R 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- **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.

4 First aid measures

- **General information** Immediately remove any clothing soiled by the product.
- **After inhalation**
Supply fresh air.
Call a doctor immediately.

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Give the exact name of the material.

- **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. Then consult doctor.

- **After swallowing**

Rinse out mouth immediately with plenty of water and administer plenty of water in small swallows (diluting effect).

Induce vomiting and call for medical help.

Show label or be able to name material exactly.

- **Information for doctor**

- **Treatment**

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

5 Fire fighting measures

- **Suitable extinguishing agents**

Fire-extinguishing powder

Sand

Alcohol-resistant foam

Carbon dioxide

- **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

Nitrous gases

- **Protective equipment:**

Wear self-contained breathing apparatus.

Body protection

- **Additional information**

Cool endangered containers with water spray jet.

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

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

6 Accidental release measures

- **Person-related safety precautions:**

Particular danger of slipping on leaked/spilled product.

Wear protective equipment. Keep unprotected persons away.

Keep away from ignition sources

Ensure adequate ventilation

- **Measures for environmental protection:**

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

Do not allow to enter the ground/soil.

Observe local, official regulations.

- **Measures for cleaning/collecting:**

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

Ensure adequate ventilation.

- **Additional information:** See Section 13 for information on disposal.

7 Handling and storage

- **Handling**

- **Information for safe handling:**

Use only in well ventilated areas.

Avoid the formation of aerosols.

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

Keep ignition sources away - Do not smoke.
Protect from heat.
Avoid sparks.
Protect against electrostatic charges.
Fumes can combine with air to form an explosive mixture.

- **Storage**

- **Requirements to be met by storerooms and containers:** No special requirements.

- **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.

8 Exposure controls and personal protection

- **Additional information about design of technical systems:** No further data; see item 7.

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

78-10-4 tetraethyl orthosilicate

OES	Short-term value: 260 mg/m ³ , 30 ppm
	Long-term value: 87 mg/m ³ , 10 ppm

67-56-1 methanol

OES	Short-term value: 333 mg/m ³ , 250 ppm
	Long-term value: 266 mg/m ³ , 200 ppm
	Sk, ILV

- **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.
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:**

Not necessary if room is well-ventilated.
Use respiratory protection only when aerosol or mist is formed.
Short term filter device:
Filter ABEK

- **Protection of hands:** Protective gloves.

- **Material of gloves**

Rubber gloves
PVC gloves

- **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:

- **General Information**

Form:	Fluid
Colour:	Yellowish

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Odour:	Weak, characteristic
· Change in condition Melting point/Melting range:	Not determined
Boiling point/Boiling range:	Not determined
· Flash point:	25°C
· Ignition temperature:	310°C
· Self-inflammability:	Product is not self-igniting.
· Danger of explosion:	Product is not explosive. However, formation of dangerous explosive vapour/air mixtures is possible.
· Vapour pressure at 20°C:	1.7 hPa
· Density at 25°C	0.95 - 0.97 g/cm ³ (DIN 51757 n halte)
· Solubility in / Miscibility with Water:	Fully miscible
· pH-value (500 g/l) at 25°C:	5 - 6
· Viscosity: dynamic at 25°C:	1 - 10 mPas (DIN 51562 n halte)

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.
- **Materials to be avoided:**
Reagiert langsam mit Wasser unter Bildung von Methanol, Ethanol und unter Flammpunkterniedrigung.
- **Dangerous reactions**
Used empty containers may contain product gases which form explosive mixtures with air
- **Dangerous decomposition products:**
None if used properly.
None if stored properly.

11 Toxicological information

- **Acute toxicity:**
- **LD/LC50 values that are relevant for classification:**
Ergebnisse durch Prüfungen mit ähnlichen Produkten:
oral > 2000 mg/kg Ratte (Limittest) (Prüfbericht)
dermal > 2000 mg/kg Ratte (Limittest) (Prüfbericht)
inhalativ > 0,72 mg/l/h (Aerosol/Staub) Ratte (Limittest)
(Prüfbericht)
- **Specific symptoms in animal assay:**
Einatmung als Aerosol: Bei technisch maximal erreichbarer Konzentration keine Mortalität im Tierversuch.
Produkt verursacht Atemnot, Koordinationsstörung. Beurteilung in Analogie zu einem geprüften, ähnlichen Produkt: 10%ige Verdünnung in Wasser: Reizt die Augen.
- **Primary irritant effect:**
- **on the skin:**
No irritating effect.
Species: rabbit
- **on the eye:**
Strong irritating effect with the danger of severe eye injury.
Species: rabbit
- **Sensitisation:**
No sensitising effect known.

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Species: guinea pig

Additional toxicological information:

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.

12 Ecological information:

General notes:

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

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

13 Notes on disposal:

Product:
Recommendation

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.

European waste catalogue

08 00 00	WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS
08 01 00	wastes from MFSU and removal of paint and varnish
08 01 11	waste paint and varnish containing organic solvents or other dangerous substances

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 Flammable liquids.

Kemler Number: 30

UN-Number: 1993

Packaging group: III

Danger sign: 3

Designation of goods: 1993 ENTZÜNDBARER FLÜSSIGER STOFF, N.A.G. (TETRAETHYLSILICAT)

Remarks: TREM-Card No. 33

Maritime transport IMDG/GGVSea:


IMDG/GGVSea Class: 3

UN Number: 1993

Label: 3

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- **Packaging group:** III
- **Marine pollutant:** -
- **Correct technical name:** FLAMMABLE LIQUID, N.O.S. (TETRAETHYL SILICATE)

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



- **ICAO/IATA Class:** 3
- **UN/ID Number:** 1993
- **Label:** 3
- **Packaging group:** III
- **Correct technical name:** FLAMMABLE LIQUID, N.O.S. (TETRAETHYL SILICATE)

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:**



Xi Irritant

- **Risk phrases:**
 - 10 Flammable.
 - 38 Irritating to skin.
 - 41 Risk of serious damage to eyes.
 - 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

- **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.
 - 39 Wear eye/face protection.
 - 51 Use only in well-ventilated areas.
 - 61 Avoid release to the environment. Refer to special instructions/safety data sheets.

- **National regulations**

- **Information on employment restrictions:** Employment restrictions must be observed

- **Technical instructions (air):**

Class	Proportion in %
III	≤1,0

- **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 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.

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Delivery specifications are found in the respective Technical Information Sheets.

· Relevant R-phrases

- 10 Flammable.
- 11 Highly flammable.
- 20 Harmful by inhalation.
- 23/24/25 Toxic by inhalation, in contact with skin and if swallowed.
- 36 Irritating to eyes.
- 36/37 Irritating to eyes and respiratory system.
- 39/23/24/25 Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.

· Department issuing data specification sheet: Product Safety department

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