

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 03.07.2007

Revision: 03.07.2007

1 Identification of substance

- **Product details**
- Trade name **SOLUTAN PU ALUMINIUM**
- **Article number:** 9002
- **Application of the substance / the preparation** Priming
- **Manufacturer/Supplier:**
Remmers Baustofftechnik GmbH
Postfach 1255
D-49624 Lönningen
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:**
TELEPHONE: 01444 244144
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2 Hazards identification

- **Hazard designation:**



Xn Harmful

- **Information pertaining to particular dangers for man and environment**
R 20 Harmful by inhalation.
R 42 May cause sensitisation by inhalation.
R 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Contains isocyanates. See information supplied by the manufacturer
- **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**

- **Dangerous components:**

CAS: 68937-41-7	Triaryl Phosphates Isopropylated	N; R 51/53	10-<30%
CAS: 584-84-9 EINECS: 209-544-5	4-methyl-m-phenylene diisocyanate	T+, Xi; R 26-36/37/38-40-42/43-52/53	≤1.0%
CAS: 141-78-6 EINECS: 205-500-4	ethyl acetate	Xi, F; R 11-36-66-67	≤1.0%

- **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**

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

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

- **After skin contact**

Remove contaminated clothing.

Wash off immediately with water.

If skin irritation continues, consult a doctor.

- **After eye contact**

Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.

- **After swallowing**

Do not induce vomiting. Do not give the affected person anything to eat or to drink. If the affected person does not recover quickly, get medical attention.

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

- **Information for doctor**

- **Treatment** symptomatic treatment

5 Fire fighting measures

- **Suitable extinguishing agents**

Water mist

CO₂, extinguishing powder or water jet. Fight larger fires with alcohol-resistant foam.

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

- **Protective equipment:**

Wear self-contained breathing apparatus.

Wear full protective suit.

- **Additional information**

Cool endangered containers with water spray jet.

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

Ensure adequate means of retaining the water used for extinguishing

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 to enter the ground/soil.

Prevent from spreading (e.g. by confining or oil barrier).

Inform responsible authorities in case product reaches bodies of water or sewage system.

Inform responsible authorities if the product penetrates into the ground.

- **Measures for cleaning/collecting:**

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

Send for recovery or disposal in suitable containers.

Ensure adequate ventilation.

Place leaking containers in a marked drum or recovery drum.

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

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7 Handling and storage

- **Handling**
- **Information for safe handling:**
Use only in well ventilated areas.
Avoid the formation of aerosols.
- **Information about protection against explosions and fires:** Keep ignition sources away - Do not smoke.
- **Storage**
- **Requirements to be met by storerooms and containers:** Store only in the original container.
- **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 humidity and keep away from water.
Protect from heat and direct sunlight.

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:**

584-84-9 4-methyl-m-phenylene diisocyanate

WEL	Short-term value: 0.07 mg/m ³ Long-term value: 0.02 mg/m ³ Sen; as -NCO
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141-78-6 ethyl acetate (0.9%)

WEL	Short-term value: 400 ppm Long-term value: 200 ppm
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- **Personal protective equipment**
- **General protective and hygienic measures**
Keep away from food, beverages and animal feed.
Immediately remove soiled, saturated clothing.
Do not eat, drink or smoke while working.
Apply solvent-resistant skin protection preparation before beginning work.
Wash hands before pauses and after work.
Be sure to clean skin thoroughly before pauses and after work.
Avoid contact with eyes and skin.
Store protective clothing separately.
Do not inhale gases / vapours / aerosols.
The handling of this product is not recommended for persons with respiratory system and skin hypersensitivity (asthma, chronic bronchitis, chronic skin disease).
- **Respiratory equipment:**
If the solvent concentration is above TLV-values, respiratory equipment admitted for this purpose must be worn.
- **Protection of hands:** Impervious gloves
- **Material of gloves**
Rubber gloves
PVC gloves
Neoprene 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.
if there is a risk of splashes

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· **Body protection:** Protective work clothing.

9 Physical and chemical properties:

· General Information

Form:	Viscous
Colour:	Silver-coloured
Odour:	Mild slightly aromatic

· Change in condition

Melting point/Melting range:	Not determined
Boiling point/Boiling range:	Not determined

· **Flash point:** 65°C (CC ClosedCupich mit Wasse)· **Self-inflammability:** Product is not self-igniting.· **Danger of explosion:** Product is not explosive.· **Density at 20°C** 1.17 g/cm³

· Solubility in / Miscibility with

Water:	Not miscible or difficult to mix
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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
 Avoid the entrance of moisture

· Materials to be avoided:

Keep away from strong acids and alkaline materials as well as oxidising agents in order to avoid exothermic reactions.
 Water

· **Dangerous reactions** No dangerous reactions occur when used according to directions.

· Dangerous decomposition products:

None if stored properly.
 None if used properly.
 May be released in fire:
 Carbon monoxide
 Carbon dioxide
 Nitrogen oxides (NO_x)
 Nitrous vitriol gases

11 Toxicological information

· Acute toxicity:

· Primary irritant effect:

· on the skin:

May cause irritation.
 Dries skin out.

· **on the eye:** May cause irritation.· **Sensitisation:** The product may have a sensitising effect on sensitive persons.

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- **Additional toxicological information:**

Special characteristics/effects of isocyanates:

In case of over-exposure - especially when spraying isocyanate based varnishes without protective measures - there is a danger of a concentration-dependent, irritating effect on eyes, nose, throat, and respiratory tract. The delayed appearance of symptoms and the development of hypersensitivity (trouble breathing, cough, asthma) are possible. For hypersensitive persons, reactions may be triggered by very low isocyanate concentrations, also below the TLV value. In case of prolonged contact with skin, tanning and irritating effects are possible.

- **Sensitisation** May cause sensitisation by inhalation.

12 Ecological information:

- **Information on elimination (persistence and degradability):**
- **Other information:** The product is not readily biodegradable.
- **General notes:** Do not allow product to reach ground water, bodies of water or sewage system.

13 Notes on disposal:

- **Product:**
- **Recommendation** Must be specially treated in compliance with official regulations.
- **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:** -

- **Maritime transport IMDG/GGVSea:**
- **IMDG/GGVSea Class:** -

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

- **Transport/Additional information:** Not a hazardous good according to the above regulations.

15 Regulatory information

- **Designation according to EC guidelines:**

The product is not subject to labelling in accordance with EC Guidelines and the Ordinance on Hazardous Materials (GefStoffV).

Observe normal safety precautions for handling chemicals

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



Xn Harmful

- **Hazard-determining components of labelling:**

4-methyl-m-phenylene diisocyanate

- **Risk phrases:**

20 Harmful by inhalation.

42 May cause sensitisation by inhalation.

52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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· **Safety phrases:**

- 23 Do not breathe fumes/aerosol.
- 38 In case of insufficient ventilation, wear suitable respiratory equipment.
- 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
- 60 This material and its container must be disposed of as hazardous waste.

· **Special labelling of certain preparations:**

Contains isocyanates. See information supplied by the manufacturer

· **National regulations**

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

From the European Committee of the Associations for varnish, printing ink and artistry paint producers -

CEPE - the following information is given for isocyanate based coating materials:

Ready-to-use coating materials that contain isocyanates may have an irritating effect on mucous membranes - especially on respiratory organs - and cause hypersensitivity reactions. There is a risk of sensitization if vapours or sprayed mist are inhaled. When handling isocyanate based coating materials, all measures for solvent based coating materials must be strictly observed. Sprayed mist and vapours especially should not be inhaled.

Persons with allergies or asthma who have a tendency for respiratory tract ailments should not be allowed to work with isocyanate based coating materials.

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**

- 11 Highly flammable.
- 26 Very toxic by inhalation.
- 36 Irritating to eyes.
- 36/37/38 Irritating to eyes, respiratory system and skin.
- 40 Limited evidence of a carcinogenic effect.
- 42/43 May cause sensitisation by inhalation and skin contact.
- 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- 66 Repeated exposure may cause skin dryness or cracking.
- 67 Vapours may cause drowsiness and dizziness.

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