

Date of issue: 29.12.2009 Replaces Data Sheet of:

"\*" alterations as compared to previous version; n.ap. = not applicable; n.av. = not available



## 1 Identification of Substance / Preparation and Company

### Identification of Substance or Preparation

**Trade Name:** Faceal 2C AGP 1 - Component B

**Use:** Component B (Hardener) for Faceal 2C AGP 1 - component A ,  
antigraffiti protection for wood and metal - See product bulletin for detailed information

### Company / Undertaking Identification

#### Address of the Company / Undertaking:

PSS INTERSERVICE Ltd., P.O. Box 315, Poststr. 1, 8954 Geroldswil, Switzerland

Telephone: +41 44 749 24 24, Fax: +41 44 749 24 25

**Contact person:** Mr. Buchli; eMail: info@pss-technology.com

#### Responsible:

CHEMCO123 ® – Chemical Consultancy, graduate chemist, R. Fechner, ☎ + 49 5254 9575 05

eMail: info@chemco123.de

#### Emergency - Telephone

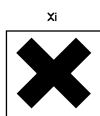
Swiss Toxicological  
Information Centre:  
Telephone: +41 44 251 51 51

Emergency – Telephone  
of Company / Undertaking:  
Telephone: +41 44 749 24 24

## 2 Hazards Identification

### For Humans

#### Classification:



R 43 - May cause sensitization by skin contact.

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

#### Additional advice:

Irritating to eyes. May cause sensitization by inhalation. Harmful by inhalation. May cause skin irritation.

#### For the Environment:

Slightly water endangering Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

## 3 Composition / Information on Ingredients

### Chemical Characterisation:

Aliphatic polyisocyanate, dissolved in Propylene carbonate

### Dangerous Ingredients:

	CAS - No.	Index - No.	EC - No.	Material	m% - range	Symbol	R - phrases
	Trade secret			Aliphatic polyisocyanate	> 75 %	Xi	R 43-52/53
	822-06-0	615-011-00-1	212-485-8	Hexamethylene-1,6-diisocyanate	0,1 < C < 0,5 %	T	R 23-36/37/38-42/43
	108-32-7	607-194-00-1	203-572-1	Propylene Carbonate	12,5 < C < 17,5 %	Xi	R 36

#### Remarks:

Classification and labelling of a product is indicated under item 15.

Exposure Controls / Personal Protection under item 8

R -phrase(s) under item 16

## 4 First Aid Measures

### General advice:

Show this safety data sheet to the doctor in attendance.

### Inhalation:

Move to fresh air in case of accidental inhalation of vapours or decomposition products.

Consult a physician. Symptoms may be delayed.

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Wash off immediately with soap and plenty of water.

In the case of skin irritation or allergic reactions see a physician.

**Eye Contact:**

Immediately flush eye(s) with plenty of water.

If eye irritation persists, consult a specialist.

**Ingestion:**

Do not induce vomiting. Clean mouth with water and drink afterwards plenty of water.

Consult a physician.

**Note to Physician:**

Symptoms may be delayed.

**Special Equipment:**

None.

**5 Fire Fighting Measures****Suitable Extinguishing Media:** Use dry chemical, CO<sub>2</sub>, water spray or "alcohol" foam.**Extinguishing Media to Avoid:** None.**Fire and Explosion Hazards:**

In the event of fire the following can be released: Carbon oxides, nitrogen oxides, isocyanates (vapours) and hydrogen cyanide (hydrocyanic acid).

**Additional Information:** Cool containers / tanks with water spray. Prevent product from entering drains.**Special Protective Equipment:**

Wear positive pressure self-contained breathing apparatus.

Wear full protective clothing.

**6 Accidental Release Measures****Personal Precautions:**

Use personal protective equipment. Ensure adequate ventilation.

**Environmental Precautions:**

Do not flush into surface water or sanitary sewer system. Contact the proper local authorities. Soak up with inert absorbent material and dispose of as hazardous waste. Take up mechanically and collect in suitable container for disposal.

**Methods for Cleaning up:***Clean-up methods - large spillage:*

Soak up with inert absorbent material and dispose of as hazardous waste. Take up mechanically and collect in suitable container for disposal.

*Clean-up methods - small spillage:*

Soak up with inert absorbent material and dispose of as hazardous waste. Take up mechanically and collect in suitable container for disposal.

**Further Information:**

Use personal protective equipment.

**7 Handling and Storage****Handling****Precautions for Safe Handling:**

Persons allergic to isocyanates, and particularly those suffering from asthma or other respiratory conditions, should not work with isocyanates. Avoid contact with skin and eyes. Do not breathe vapours or spray mist.

Provide for appropriate exhaust ventilation at machinery. Ensure adequate ventilation, especially in confined areas.

**Precautions in Case of Fire and Explosion:**

The product is flammable. Normal measures for preventive fire protection.

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**Storage****Storage Instructions:**

Keep container tightly closed in a cool, well-ventilated place.

**Store away from:**

Do not store together with strong oxidizing agents

**Further Information on Storage Conditions:**

Conditions to avoid: Exposure to moisture

**8 Exposure Controls and Personal Protection****Information on System Design:**

Provide for appropriate exhaust ventilation at machinery. Provide personal protective equipment.

**Exposure Limits:****CAS / Material**

822-06-0 / Hexamethylene-1,6-diisocyanate

**Limit Value according to TRGS 900/ EC Guidline 2000/39:**

0,005 ppm, 0,035 mg /m<sup>3</sup>

**Personal Protective Equipment****General Protection and Hygiene:**

Remove and wash contaminated clothing before re-use. Do not breathe vapours or spray mist.

Avoid contact with skin and eyes. When using do not eat or drink. When using do not smoke.

**Respiratory Protection:** In case of insufficient ventilation, wear suitable respiratory equipment.  
 Respirator with filter A2-P2

**Hand Protection:**

*Excessive exposure:* Protective gloves (butyl rubber) according to EN 374.

Break through time: > 480 Min. Glove thickness: 0,7 mm / Level 6.

*Short time exposure:* Protective gloves according to EN 374. (butyl rubber).

Break through time: > 30 Min. Glove thickness: 0,4 mm / Level 2.

Refer to manufacturer of gloves for detailed information.

**Eye Protection:**

Tightly fitting safety goggles.

**Skin Protection:**

Impervious clothing.

**Further Information:**

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

**9 Physical and Chemical Properties****Appearance**

**Form:** viscous liquid

**Colour:** colourless

**Odour:** none

**Safety Relevant Data**

pH-value, undiluted:

6,5 - 7,5

Boiling point / Boiling - range (°C):

Decomposes on heating. (~ 80 C)

Melting point / Melting range (°C):

no data available

Flash point (°C):

> 250

Flammability:

The product is flammable

Ignition temperature (°C):

no data available

Autoflammability:

not applicable

Oxidising properties:

not applicable

Explosion hazard:

not applicable

Explosion limits (Vol.%) lower:

not applicable, upper: not applicable

Vapour pressure:

no data available

Density (g/ml):

1,15

Solubility (in Water):

Reacts with water. Soluble in: ketones, toluene, xylene

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Partition coefficient, n-Octanol/Water: no data available

Viscosity: no data available

Solvent content (m %): 15

COV content (g / kg) 150

Fat solubility:

**Further Data**

Thermal decomposition (°C): no data available

Vapour density (Air = 1): no data available

Evaporation rate: no data available

**10 Stability and Reactivity****Conditions to Avoid:**

Stable at normal conditions.

**Materials to Avoid:**

Reacts with amines, alcohols and water.

**Hazardous Decomposition Products:**

Formation of carbon dioxide.

**Further Information:**

None.

**11 Toxicological Information****Toxicological Tests:****Acute Health Effects of the preparation:**Inhalation, LC<sub>50</sub> rat, (mg/l/4h): no data availableIngestion, LD<sub>50</sub> rat, (mg/kg): > 2000Skin - contact, LD<sub>50</sub> rat, (mg/kg): no data available

Irritation (to skin / eye): May cause skin irritation. Irritating to eyes.

Sensitisation: May cause sensitization by skin contact.

**Subacute / Chronic Toxicity of the preparation:**

Carcinogenicity: None known

Mutagenicity: None known

Teratogenicity: None known

Narcotic Effects: None known

**Practical Experience**

Observations relevant for classification:

None.

Further Observations:

None.

**General Remarks:**

Classification of the preparation has been done by calculation in accordance with directives 1999/45/EC and 2006/8/EC.

**12 Environmental Information****Elimination (Persistence and Degradability):**

Not readily biodegradable ( 2 %) The product can be degraded by abiotic (e.g. chemical or photolytic) processes.

Reacts with water to insoluble polyurea.

**Behaviour in Sewage Works:**

Mobility and Accumulation Potential:

Does not bioaccumulate.

**Ecotoxic Effects, Aquatic Toxicity:**

Slightly water endangering. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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**Other Ecological Information**

COD-Value, mg/g: no data available  
BOD<sub>5</sub>-Value, mg/g: no data available  
AOX-Remarks: Product does not contain any organic halogens.  
Persistent, bioaccumulative and toxic substances (PBT-substances: Hexamethylene-1,6-diisocyanate.  
Very persistent and very bioaccumulative substances (vPvB-substances): None

**13 Disposal Considerations****Residues**

Recommendation: D 10 Waste - Code - No.: 08 05 01 - Isocyanatabfälle  
In addition comply with the regional authorities.  
Safe Handling: See item 7 and 15.

**Contaminated Packaging**

Recommendation: Wash with suitable cleaner. Otherwise as described under Residues.  
Safe Handling: As described under Residues.

**14 Transport Information**

**Transportation by Road or Railway according to ADR/GGVS and RID/GGVE**

**Transportation by Vessels according to IMDG/GGVSee**

**Transportation by Aeroplane according to IATA-DGR/ICAO-TI**

**Remarks: Not dangerous goods**

**15 Regulatory Information****Classification according to directive 1999/45/EC:**

Hazard Identification: Irritant and Dangerous for the environment  
Contains: Aliphatic polyisocyanate and Hexamethylene-1,6-diisocyanate

**R-Phrases:**

R 43 - May cause sensitization by skin contact.  
R 52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**S-Phrases:**

S 23 - Do not breathe vapour /spray.  
S 26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S 37/39 - Wear suitable gloves and eye/face protection.  
S 45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).  
S 51 - Use only in well ventilated areas.  
S 60 - This material and its container must be disposed of as hazardous waste.  
S 61 - Avoid release to the environment. Refer to special instructions/safety data sheets.

**Further EC – regulations:**

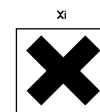
*Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004 on detergents.*  
not applicable

**Additional advice:**

Contains isocyanates. See information supplied by the manufacturer.

The above mentioned classification is valid for distribution to: Professional use.

Labelling (formats, exemptions, additional markings) has to be done according to respective regulations.



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R 23 - Toxic by inhalation.

R 43 - May cause sensitization by skin contact.

R 42/43 - May cause sensitization by inhalation and skin contact.

R 36/37/38 - Irritating to eyes, respiratory system and skin.

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

**Further information to work out the Data sheet:**

Data of the producer.

The statements in this Material Safety Data Sheet were made to the best of our knowledge (2009/2/EC) and are as accurate as possible. They are given for information only. They do not constitute a contractual guarantee of a product's properties. They must neither be altered nor transferred to other products.

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