

## Safety Data Sheet

according to 1907/2006/EC

Printing date: 06 June 2018

Revision: 06 June 2018

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### · 1.1 Product identifier

- Trade name: **Spal Pro RS-88 Part B ISO**
- Product code: No other identifiers

#### · 1.2 Relevant identified uses of the substance or mixture and uses advised against

- Application of the substance / the mixture: Component of a Control Joint Polyurethane System.
- Uses advised against: No further relevant information available.

#### · 1.3 Details of the supplier of the Safety Data Sheet

##### · Manufacturer/Supplier:

METZGER/McGUIRE

Mailing Address:

PO Box 2217

Concord, NH 03302

Shipping Address:

807 Route 3-A

Bow, NH 03304

Phone: 603-224-6122

Toll Free: 800-223-6680

Email: info@metzgermcguire.com

##### · Importer / Distributor:

DR. Schulze GmbH

Bollenberg 10

D-57234 Wilnsdorf

+49 (0) 2737/5953-0

#### · 1.4 Emergency telephone number:

ChemTel Inc.

(800)255-3924 (North America)

+1 (813)248-0585 (International)

### SECTION 2: Hazards identification

#### · 2.1 Classification of the substance or mixture

##### · Classification according to Regulation (EC) No 1272/2008

Acute Tox. 4 H302 Harmful if swallowed.

Acute Tox. 4 H332 Harmful if inhaled.

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Skin Sens. 1 H317 May cause an allergic skin reaction.

Muta. 1B H340 May cause genetic defects.

Carc. 1B H350 May cause cancer.

STOT SE 3 H335 May cause respiratory irritation.

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.

#### · 2.2 Label elements

##### · Labelling according to Regulation (EC) No 1272/2008

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The product is classified and labelled according to the CLP regulation.

**Hazard pictograms**


GHS07 GHS08

**Signal word** Danger

**Hazard-determining components of labelling:**

propylene oxide  
 4,4'-Methylenediphenyl diisocyanate, oligomers  
 4,4'-methylenediphenyl diisocyanate

**Hazard statements**

H302+H332 Harmful if swallowed or if inhaled.  
 H315 Causes skin irritation.  
 H319 Causes serious eye irritation.  
 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
 H317 May cause an allergic skin reaction.  
 H340 May cause genetic defects.  
 H350 May cause cancer.  
 H335 May cause respiratory irritation.  
 H373 May cause damage to organs through prolonged or repeated exposure.

**Precautionary statements**

P202 Do not handle until all safety precautions have been read and understood.  
 P260 Do not breathe mist/vapours/spray.  
 P280 Wear protective gloves/protective clothing/eye protection.  
 P284 In case of inadequate ventilation wear respiratory protection.  
 P302+P352 IF ON SKIN: Wash with plenty of water.  
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P314 Get medical advice/attention if you feel unwell.

**Additional information:**

Contains isocyanates. May produce an allergic reaction.  
 Restricted to professional users.



**2.3 Other hazards** There are no other hazards not otherwise classified that have been identified.

**Results of PBT and vPvB assessment**

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients

**3.2 Mixtures**
**Components:**

CAS: 25686-28-6 NLP: 500-040-3	4,4'-Methylenediphenyl diisocyanate, oligomers  Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 2, H373  Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335	30-37%
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CAS: 75-56-9 EINECS: 200-879-2 Index number: 603-055-00-4 Reg.nr.: 01-2119480483-35-XXXX	propylene oxide Flam. Liq. 1, H224 Acute Tox. 3, H311; Acute Tox. 3, H331 Muta. 1B, H340; Carc. 1B, H350 Acute Tox. 4, H302; Eye Irrit. 2, H319; STOT SE 3, H335	30-34%
CAS: 101-68-8 EINECS: 202-966-0 Index number: 615-005-00-9 Reg.nr.: 01-2119457014-47-XXXX	4,4'-methylenediphenyl diisocyanate Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 2, H373 Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335	15-17%
CAS: 108-32-7 EINECS: 203-572-1 Index number: 607-194-00-1 Reg.nr.: 01-2119537232-48-XXXX	Propylene carbonate Eye Irrit. 2, H319	<10%

**SVHC**

75-56-9 propylene oxide

**Additional information:** For the wording of the listed Hazard Statements refer to section 16.

### SECTION 4: First aid measures

**4.1 Description of first aid measures**
**After inhalation:**

Supply fresh air.  
 Seek immediate medical advice.  
 Provide oxygen treatment if affected person has difficulty breathing.  
 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

**After skin contact:**

Immediately wash with water and soap and rinse thoroughly.  
 If skin irritation or rash occurs: Get medical advice/attention.

**After eye contact:**

Remove contact lenses if worn, if possible.  
 Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

**After swallowing:**

Rinse out mouth and then drink plenty of water.  
 Do not induce vomiting; call for medical help immediately.

**4.2 Most important symptoms and effects, both acute and delayed**

Asthma attacks  
 Breathing difficulty  
 Dizziness  
 Coughing  
 Allergic reactions  
 Irritating to eyes, respiratory system and skin.  
 Gastric or intestinal disorders when ingested.  
 Nausea in case of ingestion.  
 Cyanosis

**Hazards:**

Harmful if swallowed or if inhaled.  
 Danger of impaired breathing.  
 May cause damage to organs through prolonged or repeated exposure.

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May cause cancer.

May cause genetic defects.

**· 4.3 Indication of any immediate medical attention and special treatment needed**

Contains isocyanates. May produce an allergic reaction.

Severe allergic skin reaction, bronchial spasms and anaphylactic shock are possible.

Medical supervision for at least 48 hours.

If necessary oxygen respiration treatment.

Later observation for pneumonia and pulmonary oedema.

Treat skin and mucous membrane with antihistamine and corticoid preparations.

If medical advice is needed, have product container or label at hand.

In cases of irritation to the lungs, initial treatment with cortical steroid inhalants.

**SECTION 5: Firefighting measures****· 5.1 Extinguishing media**

· **Suitable extinguishing agents:** CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray.

· **For safety reasons unsuitable extinguishing agents:** Water with full jet

**· 5.2 Special hazards arising from the substance or mixture**

During heating or in case of fire poisonous gases are produced.

**· 5.3 Advice for firefighters****· Protective equipment:**

Wear self-contained respiratory protective device.

Wear fully protective suit.

· **Additional information:** Cool endangered product with water spray.

**SECTION 6: Accidental release measures****· 6.1 Personal precautions, protective equipment and emergency procedures**

Use respiratory protective device against the effects of fumes/dust/aerosol.

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Isolate area and prevent access.

**· 6.2 Environmental precautions**

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

**· 6.3 Methods and material for containment and cleaning up**

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

Send for recovery or disposal in suitable receptacles.

**· 6.4 Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

**SECTION 7: Handling and storage****· 7.1 Precautions for safe handling**

Prevent formation of aerosols.

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- Avoid splashes or spray in enclosed areas.
- Use only in well ventilated areas.
- **Information about fire - and explosion protection:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Requirements to be met by storerooms and receptacles:**  
 Avoid storage near extreme heat, ignition sources or open flame.  
 Protect from humidity and water.
- **Information about storage in one common storage facility:**  
 Store away from foodstuffs.  
 Do not store together with oxidising and acidic materials.
- **Further information about storage conditions:**  
 Keep container tightly sealed.  
 Storage Temperatures: 65 - 90 °F / 18 - 32 °C.
- **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

#### · 8.1 Control parameters

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

##### **75-56-9 propylene oxide**

WEL (Great Britain)	Long-term value: 12 mg/m <sup>3</sup> , 5 ppm Carc
OEL (Ireland)	Long-term value: 12 mg/m <sup>3</sup> , 5 ppm Carc1B, Muta1B

##### **101-68-8 4,4'-methylenediphenyl diisocyanate**

WEL (Great Britain)	Short-term value: 0,07 mg/m <sup>3</sup> Long-term value: 0,02 mg/m <sup>3</sup> Sen; as -NCO
OEL (Ireland)	Short-term value: 0,07 mg/m <sup>3</sup> Long-term value: 0,02 mg/m <sup>3</sup> as -NCO; Sens.

- **DNELs:** No further relevant information available.
- **PNECs:** No further relevant information available.
- **8.2 Exposure controls**
- **General protective and hygienic measures:**  
 The usual precautionary measures are to be adhered to when handling chemicals.  
 Keep away from foodstuffs, beverages and feed.  
 Wash hands before breaks and at the end of work.  
 Do not inhale gases / fumes / aerosols.  
 Avoid contact with the eyes and skin.
- **Respiratory protection:**



Combined Organic Vapour and Particulate Respirator is recommended for use during all processing activities.

- **Protection of hands:**

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**Protective gloves**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

**· Eye protection:**

**Safety glasses**

Follow relevant national guidelines concerning the use of protective eyewear.

**· Body protection:** Protective work clothing

**· Limitation and supervision of exposure into the environment:**

No further relevant information available.

**· Risk management measures:**

Organizational measures should be in place for all activities involving this product.

### SECTION 9: Physical and chemical properties

**· 9.1 Information on basic physical and chemical properties**
**· Appearance**

**Form:** Liquid

**Colour:** Pale

**· Odour:** Musty.

**· Odour threshold:** Not determined.

**· pH-value:** Not determined.

**· Melting point/freezing point:** Not determined.

**· Initial boiling point and boiling range:** >300 °C

**· Flash point:** >110 °C

**· Flammability (solid, gas):** Not applicable.

**· Auto/Self-ignition temperature:** >600 °C

**· Decomposition temperature:** >300 °C

**· Explosive properties:** Product does not present an explosion hazard.

**· Explosion limits**

**Lower:** Not determined.

**Upper:** Not determined.

**· Oxidising properties** Non-oxidising.

**· Vapour pressure:** Not determined.

**· Density:** 1,2 g/cm<sup>3</sup>

**· Relative density:** Not determined.

**· Vapour density:** Not determined.

**· Evaporation rate:** Not determined.

**· Solubility in / Miscibility with**

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<b>water:</b>	Slowly reacts with water.
· <b>Partition coefficient: n-octanol/water:</b>	Not determined.
· <b>Viscosity</b>	
<b>Dynamic:</b>	Not determined.
<b>Kinematic:</b>	Not determined.
· <b>9.2 Other information</b>	No further relevant information available.

### SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability** Stable under normal temperatures and pressures.
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used and stored according to specifications.
- **10.3 Possibility of hazardous reactions**  
Exothermic polymerisation.  
Reacts with water and acids.  
Reacts with alcohols, amines, aqueous acids and alkalis.  
Reacts with catalysts.  
Reacts with peroxides and other radical forming substances.  
Toxic fumes may be released if heated above the decomposition point.
- **10.4 Conditions to avoid** Excessive heat.
- **10.5 Incompatible materials** Oxidisers, strong bases, strong acids
- **10.6 Hazardous decomposition products**  
Carbon dioxide  
Carbon monoxide  
Nitrogen oxides  
Hydrocarbons  
Hydrogen cyanide (prussic acid)  
Isocyanate

### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity:**  
Harmful if swallowed or if inhaled.

- **LD/LC50 values relevant for classification:**

**75-56-9 propylene oxide**

Oral	LD50	380 mg/kg (rat)
Dermal	LD50	1245 mg/kg (rabbit)

**101-68-8 4,4'-methylenediphenyl diisocyanate**

Oral	LD50	2200 mg/kg (mouse)
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- **Primary irritant effect**
- **Skin corrosion/irritation:**  
Causes skin irritation.

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- **Serious eye damage/irritation:**  
Causes serious eye irritation.
- **Respiratory or skin sensitisation:**  
May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
May cause an allergic skin reaction.

· <b>IARC (International Agency for Research on Cancer):</b>
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None of the ingredients are listed.
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- **Probable routes of exposure:**  
Ingestion.  
Inhalation.  
Eye contact.  
Skin contact.
- **Germ cell mutagenicity:**  
May cause genetic defects.
- **Carcinogenicity:**  
May cause cancer.
- **Reproductive toxicity:** Based on available data, the classification criteria are not met.
- **STOT-single exposure:**  
May cause respiratory irritation.
- **STOT-repeated exposure:**  
May cause damage to organs through prolonged or repeated exposure.
- **Aspiration hazard:** Based on available data, the classification criteria are not met.

### SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

### SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**  
Can be disposed of with household garbage after solidification following consultation with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations. The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal.

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disposal for hazardous and nonhazardous wastes.

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- **Uncleaned packaging:**

- **Recommendation:**

Disposal must be made according to official regulations.

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

Packagings that may not be cleansed are to be disposed of in the same manner as the product.

### SECTION 14: Transport information

- **14.1 UN-Number**

- DOT, ADR, IMDG, IATA Not Regulated

- **14.2 UN proper shipping name**

- DOT, ADR, IMDG, IATA Not Regulated

- **14.3 Transport hazard class(es)**

- DOT, ADR, IMDG, IATA

- Class Not Regulated

- **14.4 Packing group**

- DOT, ADR, IMDG, IATA Not Regulated

- **14.5 Environmental hazards:**

- Marine pollutant: No

- **14.6 Special precautions for user**

Not applicable.

- **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**

Not applicable.

- **Transport/Additional information:**

- **ADR**

- Transport category 4

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

- **IARC (International Agency for Research on Cancer)**

75-56-9	propylene oxide	2B
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- **Directive 2012/18/EU**

- **Named dangerous substances - ANNEX I** None of the ingredients are listed.

- **Other regulations, limitations and prohibitive regulations**

- **Substances of very high concern (SVHC) according to REACH, Article 57**

75-56-9	propylene oxide
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- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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### SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

#### · Relevant phrases

- H224 Extremely flammable liquid and vapour.
- H302 Harmful if swallowed.
- H311 Toxic in contact with skin.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H331 Toxic if inhaled.
- H332 Harmful if inhaled.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H335 May cause respiratory irritation.
- H340 May cause genetic defects.
- H350 May cause cancer.
- H351 Suspected of causing cancer.
- H373 May cause damage to organs through prolonged or repeated exposure.

#### · Abbreviations and acronyms:

- ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
- IMDG: International Maritime Code for Dangerous Goods
- DOT: US Department of Transportation
- IATA: International Air Transport Association
- GHS: Globally Harmonised System of Classification and Labelling of Chemicals
- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- DNEL: Derived No-Effect Level (REACH)
- PNEC: Predicted No-Effect Concentration (REACH)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bio-accumulable, Toxic
- SVHC: Substances of Very High Concern
- vPvB: very Persistent and very Bioaccumulative
- Flam. Liq. 1: Flammable liquids – Category 1
- Acute Tox. 3: Acute toxicity – Category 3
- Acute Tox. 4: Acute toxicity – Category 4
- Skin Irrit. 2: Skin corrosion/irritation – Category 2
- Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
- Resp. Sens. 1: Respiratory sensitisation – Category 1
- Skin Sens. 1: Skin sensitisation – Category 1
- Muta. 1B: Germ cell mutagenicity – Category 1B
- Carc. 1B: Carcinogenicity – Category 1B
- Carc. 2: Carcinogenicity – Category 2
- STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
- STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

#### · Sources

- Website, European Chemicals Agency ([echa.europa.eu](http://echa.europa.eu))
- Website, US EPA Substance Registry Services ([ofmpub.epa.gov/sorinternet/registry/substreg/home/overview/home.do](http://ofmpub.epa.gov/sorinternet/registry/substreg/home/overview/home.do))
- Website, Chemical Abstracts Registry, American Chemical Society ([www.cas.org](http://www.cas.org))
- Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6

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Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaassen, Curtis D., ed., ISBN:  
978-0-07-176923-5.  
Safety Data Sheets, Individual Manufacturers

SDS Prepared by:  
ChemTel Inc.  
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