

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 2000 Part B
- Other means of identification: No other identifiers

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

- Application of the substance / the mixture: Industrial uses.
- 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 | 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. |
| Carc. 2 | H351 | Suspected of causing 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**

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

Hazard pictograms

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GHS07 GHS08

- **Signal word** Danger
 - **Hazard-determining components of labelling:**
 Oxirane, methyl-, polymer with oxirane, ether with 1,2,3-propanetriol (3:1), polymer with 1,1'-methylenebis[isocyanatobenzene]
 diphenylmethanediisocyanate, isomeres and homologues
 methylenediphenyl diisocyanate
 4,4'-methylenediphenyl diisocyanate
 - **Hazard statements**
 H332 Harmful 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.
 H351 Suspected of causing cancer.
 H335 May cause respiratory irritation.
 H373 May cause damage to organs through prolonged or repeated exposure.
 - **Precautionary statements**
 P260 Do not breathe dust/fume/gas/mist/vapours/spray.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P284 [In case of inadequate ventilation] wear respiratory protection.
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P308+P313 If exposed or concerned: Get medical advice/attention.
 P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.
 P403+P233 Store in a well-ventilated place. Keep container tightly closed.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
 - **Additional information:**
 Contains isocyanates. May produce an allergic reaction.
 Restricted to professional users.
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- **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: 9016-87-9 NLP: 500-079-6 Reg.nr.: 01-2119457024-46-XXXX	diphenylmethanediisocyanate, isomeres and homologues ⚠ Resp. Sens. 1, H334; STOT RE 2, H373 ⚠ Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335	0-35%
CAS: 112898-48-3	Oxirane, methyl-, polymer with oxirane, ether with 1,2,3-	0-35%

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EC number: 670-235-7	propanetriol (3:1), polymer with 1,1'-methylenebis[isocyanatobenzene] <ul style="list-style-type: none"> 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 	
CAS: 26447-40-5 EINECS: 202-966-0 Index number: 615-005-00-9 Reg.nr.: 01-2120770510-62-XXXX	methylenediphenyl diisocyanate <ul style="list-style-type: none"> 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 	0-25%
CAS: 101-68-8 EINECS: 202-966-0 Index number: 615-005-00-9 Reg.nr.: 01-2119457014-47-XXXX	4,4'-methylenediphenyl diisocyanate <ul style="list-style-type: none"> 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 	0-20%

· **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 and to be sure to call for a doctor.
 Provide oxygen treatment if affected person has difficulty breathing.
 In case of irregular breathing or respiratory arrest provide artificial respiration.
 In case of unconsciousness place patient stably in side position for transportation.

· **After skin contact:**

Immediately remove any clothing soiled by the product.
 Immediately wash with water and soap and rinse thoroughly.
 If skin irritation continues, consult a doctor.

· **After eye contact:**

Remove contact lenses if worn.
 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
 Headache
 Breathing difficulty
 Coughing
 Allergic reactions
 Irritant to skin and mucous membranes.
 Causes eye irritation.
 May cause respiratory irritation.
 Gastric or intestinal disorders when ingested.
 Nausea in case of ingestion.

· **Hazards:**

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

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4.3 Indication of any immediate medical attention and special treatment needed

Contains 4,4'-methylenediphenyl diisocyanate, diphenylmethanediisocyanate, isomeres and homologues, Oxirane, methyl-, polymer with oxirane, ether with 1,2,3-propanetriol (3:1), polymer with 1,1'-methylenebis[isocyanatobenzene], methylenediphenyl diisocyanate. 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.

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

SECTION 5: Firefighting measures

5.1 Extinguishing media

· **Suitable extinguishing agents:** CO₂, 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.

Do not inhale explosion gases or combustion gases.

Wear fully protective suit.

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

Avoid splashes or spray in enclosed areas.

Use only in well ventilated areas.

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- Avoid breathing mist/vapours/spray.
- Avoid contact with the eyes and skin.
- **Information about fire - and explosion protection:** Keep respiratory protective device available.
- **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.
- **Information about storage in one common storage facility:**
Store away from foodstuffs.
Store away from oxidisers, strong acids, strong bases.
- **Further information about storage conditions:**
Store in cool, dry conditions in well sealed receptacles.
Protect from humidity and water.
- **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:**

9016-87-9 diphenylmethanediisocyanate, isomeres and homologues

WEL (Great Britain)	Short-term value: 0,07 mg/m ³ Long-term value: 0,02 mg/m ³ Sen; as -NCO
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OEL (Ireland)	Short-term value: 0,07 mg/m ³ Long-term value: 0,02 mg/m ³ as -NCO; Sens.
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26447-40-5 methylenediphenyl diisocyanate

OEL (Ireland)	Short-term value: 0,07 mg/m ³ Long-term value: 0,02 mg/m ³ as -NCO; Sens.
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101-68-8 4,4'-methylenediphenyl diisocyanate

WEL (Great Britain)	Short-term value: 0,07 mg/m ³ Long-term value: 0,02 mg/m ³ Sen; as -NCO
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OEL (Ireland)	Short-term value: 0,07 mg/m ³ Long-term value: 0,02 mg/m ³ as -NCO; Sens.
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- **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.
- Immediately remove all soiled and contaminated clothing.
- Wash hands before breaks and at the end of work.
- Do not inhale gases / fumes / aerosols.
- Avoid contact with the eyes and skin.

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Respiratory protection:


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

Protection of hands:


Protective gloves

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

Eye protection:


Safety glasses

Body protection: Protective work clothing

Limitation and supervision of exposure into the environment:

No further relevant information available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties
Appearance

Form:	Liquid
Colour:	According to product specification

Odour:	Characteristic
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Odour threshold:	Not determined.
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pH-value:	Not determined.
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Melting point/freezing point:	Not determined.
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Initial boiling point and boiling range:	Not determined.
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Flash point:	>93 °C
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Flammability (solid, gas):	Not applicable.
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Auto/Self-ignition temperature:	Not determined.
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Decomposition temperature:	Not determined.
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Explosive properties:	Product does not present an explosion hazard.
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Explosion limits

Lower:	Not determined.
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Upper:	Not determined.
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Oxidising properties	Not determined.
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Vapour pressure:	Not determined.
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Density:

Relative density:	Not determined.
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Vapour density:	Not determined.
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Evaporation rate:	Not determined.
· Solubility in / Miscibility with water:	Slowly reacts with water.
· Partition coefficient: n-octanol/water:	Not determined.
· Viscosity	
Dynamic:	Not determined.
Kinematic:	Not determined.
· 9.2 Other information	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**
Toxic fumes may be released if heated above the decomposition point.
Exothermic polymerisation.
Reacts with alcohols, amines, aqueous acids and alkalis.
Reacts with strong oxidising agents.
- **10.4 Conditions to avoid**
Moisture.
Excessive heat.
- **10.5 Incompatible materials** Oxidisers, strong bases, strong acids
- **10.6 Hazardous decomposition products**
Carbon monoxide and carbon dioxide
Nitrogen oxides (NOx)
Isocyanate
Hydrogen cyanide (prussic acid)

SECTION 11: Toxicological information

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

 · **LD/LC50 values relevant for classification:**
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.
- **Serious eye damage/irritation:**
Causes serious eye irritation.
- **Respiratory or skin sensitisation:**

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May cause allergy or asthma symptoms or breathing difficulties if inhaled.
 May cause an allergic skin reaction.

· **IARC (International Agency for Research on Cancer):**

None of the ingredients are listed.

· **Probable routes of exposure:**

Ingestion.
 Inhalation.
 Eye contact.
 Skin contact.

· **Germ cell mutagenicity:** Based on available data, the classification criteria are not met.

· **Carcinogenicity:**

Suspected of causing 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 for hazardous and nonhazardous wastes.

· **Uncleaned packaging:**

· **Recommendation:**

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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)
None of the ingredients are listed.
· Directive 2012/18/EU
· Named dangerous substances - ANNEX I Substance is not listed.
· National regulations:
· Water hazard class: Water hazard class 2: hazardous for water.
· Other regulations, limitations and prohibitive regulations
· Substances of very high concern (SVHC) according to REACH, Article 57
None of the ingredients are listed.
· 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

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

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

H335 May cause respiratory irritation.

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

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

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)

Website, US EPA Substance Registry Services (ofmpub.epa.gov/sorinternet/registry/substreg/home/overview/home.do)

Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org)

Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6

Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5.

Safety Data Sheets, Individual Manufacturers

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