

Safety Data Sheet

acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: October 14, 2026

Revision: October 14, 2026

1 Identification

- **Product identifier**
- **Trade name:** Spal-Pro Stabilizer Part A
- **Other means of identification:** No other identifiers
- **Recommended use and restriction on use**
- **Recommended use:** Industrial uses.
- **Restrictions on use:** No relevant information available.
- **Details of the supplier of the Safety Data Sheet**
- **Manufacturer/Supplier:**
METZGER/McGUIRE
Mailing Address:
PO Box 2217
Concord, NH 03302
Shipping Address:
8 Integra Dr.
Concord, NH 03301
Phone: 603-224-6122
Toll Free: 800-223-6680
Email: info@metzgermcguire.com
- **Emergency telephone number:**
ChemTel Inc.
(800) 255-3924 (North America)
+1 (813) 248-0585 (International)

2 Hazard(s) identification

- **Classification of the substance or mixture**
Eye Irrit. 2A H319 Causes serious eye irritation.
Skin Sens. 1 H317 May cause an allergic skin reaction.
- **Label elements**
- **GHS label elements**
The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms:**

GHS07
- **Signal word:** Warning
- **Hazard statements:**
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
- **Precautionary statements:**
P261 Avoid breathing mist, vapors, or spray.
P272 Contaminated work clothing must not be allowed out of the workplace.
P280 Wear protective gloves/protective clothing/eye protection.
P302+P352 If on skin: Wash with plenty of soap and water.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

(Cont'd. on page 2)

Safety Data Sheet

acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: October 14, 2026

Revision: October 14, 2026

Trade name: Spal-Pro Stabilizer Part A

- (Cont'd. of page 1)
- P363 Wash contaminated clothing before reuse.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

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

3 Composition/information on ingredients

- **Chemical characterization:** Mixtures

• Components:

106264-79-3	1,3-Benzenediamine, 2(or 4)-methyl-4,6(or 2,6)-bis(methylthio)-	10-15%
	⚠ Acute Tox. 4, H302; Skin Sens. 1, H317	
102-60-3	1,1',1'',1'''-ethylenedinitrilotetrapropan-2-ol	≤10%
	⚠ Eye Irrit. 2A, H319	
5285-60-9	4,4'-methylenebis[N-sec-butaniline]	≤5%
	⚠ Acute Tox. 4, H302	

• Additional information:

For the listed ingredient(s), the identity and/or exact percentage(s) are being withheld as a trade secret.
For the wording of the listed Hazard Statements, refer to section 16.

4 First-aid measures

- **Description of first aid measures**
- **After inhalation:**
Respiration of particulates is unlikely during normal usage.
Supply fresh air; consult doctor in case of complaints.
- **After skin contact:**
Do not pull solidified product away from the skin.
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; immediately call for medical help.
- **Most important symptoms and effects, both acute and delayed:**
Headache
Breathing difficulty
Coughing
Allergic reactions
Nausea in case of ingestion.
Gastric or intestinal disorders when ingested.
Vomiting.
Diarrhea.
Slight irritant effect on eyes.
Slight irritant effect on skin and mucous membranes.
- **Indication of any immediate medical attention and special treatment needed:**

(Cont'd. on page 3)

Safety Data Sheet

acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: October 14, 2026

Revision: October 14, 2026

Trade name: Spal-Pro Stabilizer Part A

(Cont'd. of page 2)

Contains 1,3-Benzenediamine, 2(or 4)-methyl-4,6(or 2,6)-bis(methylthio)-. May produce an allergic reaction.

Treat skin and mucous membrane with antihistamine and corticoid preparations.

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

5 Fire-fighting measures

Extinguishing media

Suitable extinguishing agents:

Water fog / haze

Foam

Gaseous extinguishing agents

Fire-extinguishing powder

For safety reasons unsuitable extinguishing agents: Water spray

Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

Advice for firefighters

Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.

Use personal protective equipment as required.

Environmental precautions

Do not allow to enter sewers/ surface or ground water.

Inform respective authorities in case of seepage into water course or sewage system.

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.

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.

7 Handling and storage

Handling

Precautions for safe handling:

Use only in well ventilated areas.

Avoid contact with the eyes and skin.

Open and handle receptacle with care.

Avoid breathing mist, vapors, or spray.

Information about protection against explosions and fires:

Keep respiratory protective device available.

(Cont'd. on page 4)

Safety Data Sheet

acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: October 14, 2026

Revision: October 14, 2026

Trade name: Spal-Pro Stabilizer Part A

(Cont'd. of page 3)

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.

Store in cool, dry conditions in well sealed receptacles.

Information about storage in one common storage facility: Store away from foodstuffs.

Specific end use(s) No relevant information available.

8 Exposure controls/personal protection

Control parameters

Components with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Exposure controls

General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Avoid breathing mist, vapors, or spray.

Engineering controls: No relevant information available.

Breathing equipment:

Wear appropriate NIOSH respirator when ventilation is inadequate and occupational exposure limits are exceeded.

Protection of hands:



Protective gloves

Eye protection:



Safety glasses

Body protection: Protective work clothing

Limitation and supervision of exposure into the environment

Avoid release to the environment.

Risk management measures No relevant information available.

9 Physical and chemical properties

Information on basic physical and chemical properties

Appearance:

Form:

Liquid

Color:

According to product specification

(Cont'd. on page 5)

Safety Data Sheet

acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: October 14, 2026

Revision: October 14, 2026

Trade name: Spal-Pro Stabilizer Part A

(Cont'd. of page 4)

· Odor:	Slight.
· Odor threshold:	Not determined.
· pH-value:	Not determined.
· Melting point/Melting range:	<0 °C (<32 °F)
· Boiling point/Boiling range:	>149 °C (>300.2 °F)
· Flash point:	>93 °C (>199.4 °F)
· Flammability (solid, gaseous):	Not applicable.
· Auto-ignition temperature:	Not determined.
· Decomposition temperature:	Not determined.
· Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits	
Lower:	Not determined.
Upper:	Not determined.
· Oxidizing properties:	Non-oxidizing.
· Vapor pressure:	Not determined.
· Density:	
Relative density:	1.07-1.09
Vapor density:	Not determined.
Evaporation rate:	Not determined.
· Solubility in / Miscibility with Water:	Not miscible or difficult to mix.
· Partition coefficient (n-octanol/water):	Not determined.
· Viscosity	
Dynamic at 25 °C (77 °F):	1400-1700 cP
Kinematic:	Not determined.
· Other information	No relevant information available.

10 Stability and reactivity

- **Reactivity:** No relevant information available.
- **Chemical stability:** Stable under normal temperatures and pressures.
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used and stored according to specifications.
- **Possibility of hazardous reactions**
Exothermic polymerization.
Reacts with oxidizing agents.
Reacts with strong acids and alkali.
Reacts with peroxides and other radical forming substances.
- **Conditions to avoid**
Store away from oxidizing agents.
Avoid acids.
Excessive heat.

(Cont'd. on page 6)

Safety Data Sheet

acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: October 14, 2026

Revision: October 14, 2026

Trade name: Spal-Pro Stabilizer Part A

(Cont'd. of page 5)

- **Incompatible materials** Oxidizers, strong bases, strong acids
- **Hazardous decomposition products** Carbon monoxide and carbon dioxide

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:** Based on available data, the classification criteria are not met.

LD/LC50 values that are relevant for classification:

106264-79-3 1,3-Benzenediamine, 2(or 4)-methyl-4,6(or 2,6)-bis(methylthio)-

Oral LD50 1515 mg/kg (rat)

104-19-8 N,N,4-trimethylpiperazine-1-ethylamine

Oral LD50 1420 mg/kg (rat)

Dermal LD50 390 mg/kg (rabbit)

- **Primary irritant effect:**
- **On the skin:** Based on available data, the classification criteria are not met.
- **On the eye:** Based on available data, the classification criteria are not met.
- **Sensitization:** Sensitization possible through skin contact.

IARC (International Agency for Research on Cancer):

None of the ingredients are listed.

NTP (National Toxicology Program):

None of the ingredients are listed.

OSHA-Ca (Occupational Safety & Health Administration):

None of the ingredients are listed.

- **Probable route(s) of exposure:**
Ingestion.
Eye contact.
Skin contact.
- **Germ cell mutagenicity:** Based on available data, the classification criteria are not met.
- **Carcinogenicity:** Based on available data, the classification criteria are not met.
- **Reproductive toxicity:** Based on available data, the classification criteria are not met.
- **STOT-single exposure:** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure:** Based on available data, the classification criteria are not met.
- **Aspiration hazard:** Based on available data, the classification criteria are not met.

12 Ecological information

- **Toxicity**
- **Aquatic toxicity**
Toxic to aquatic life with long lasting effects.

106264-79-3 1,3-Benzenediamine, 2(or 4)-methyl-4,6(or 2,6)-bis(methylthio)-

LC50 16.9 mg/l (Oncorhynchus mykiss)

EC50 1.1 mg/l (daphnia)

ErC50 7.6 mg/l (Pseudokirchneriella subcapitata)

(Cont'd. on page 7)

Safety Data Sheet

acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: October 14, 2026

Revision: October 14, 2026

Trade name: Spal-Pro Stabilizer Part A

(Cont'd. of page 6)

- **Persistence and degradability** No relevant information available.
- **Bioaccumulative potential:** No relevant information available.
- **Mobility in soil:** No relevant information available.
- **Additional ecological information**
- **General notes:** Do not allow product to reach ground water, water course or sewage system.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No relevant information available.

13 Disposal considerations

- **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 packagings**
- **Recommendation:**
Disposal must be made according to official regulations. Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning. Packagings that cannot be cleansed are to be disposed of in the same manner as the product.

14 Transport information

- **UN-Number**
- **DOT** Not regulated.
- **ADR, IMDG, IATA** UN3082
- **UN proper shipping name**
- **DOT** Not regulated.
- **ADR, IMDG, IATA** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (1,3-Benzenediamine, 2(or 4)-methyl-4,6(or 2,6)-bis(methylthio)-)
- **Transport hazard class(es)**
- **DOT**
- **Class** Not regulated.
- **ADR**
- **Class** 9 (M6)

(Cont'd. on page 8)

Safety Data Sheet

acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: October 14, 2026

Revision: October 14, 2026

Trade name: Spal-Pro Stabilizer Part A

(Cont'd. of page 7)

- **Label** 9
- **IMDG, IATA**
- **Class** 9
- **Label** 9
- **Packing group** Not regulated.
- **DOT** III
- **ADR, IMDG, IATA** III
- **Environmental hazards** Product contains environmentally hazardous substances: 1,3-Benzenediamine, 2(or 4)-methyl-4,6(or 2,6)-bis(methylthio)-
- **Marine pollutant:**
- **Special precautions for user** Warning: Miscellaneous dangerous substances and articles
- **Danger code (Kemler):** 90
- **EMS Number:** F-A,S-F
- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.
- **Transport/Additional information:** Not regulated when carried in single or combination packaging containing a net quantity of 5L or less for liquids or 5 kg or less for solids per the following:
ADR: SP 375
IMDG: 2.10.2.7
IATA: special provision A197
- **DOT**
- **Remarks:** Transport labeling is not required for non-bulk single package shipments by motor vehicle, rail car or aircraft. Bulk packaging consists of a maximum capacity of greater than 450L (119 gallons) for a liquid and a maximum net mass greater than 400kg (882 pounds) for a solid.

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **United States (USA)**

(Cont'd. on page 9)

Safety Data Sheet

acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: October 14, 2026

Page: 9/10

Revision: October 14, 2026

Trade name: Spal-Pro Stabilizer Part A

(Cont'd. of page 8)

· SARA

· Section 302 (extremely hazardous substances):

None of the ingredients are listed.

· Section 355 (extremely hazardous substances):

None of the ingredients are listed.

· Section 313 (Specific toxic chemical listings):

None of the ingredients are listed.

· TSCA (Toxic Substances Control Act)

All ingredients are listed.

· Proposition 65 (California)

· Chemicals known to cause cancer:

None of the ingredients are listed.

· Chemicals known to cause developmental toxicity for females:

None of the ingredients are listed.

· Chemicals known to cause developmental toxicity for males:

None of the ingredients are listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

· EPA (Environmental Protection Agency):

None of the ingredients are listed.

· IARC (International Agency for Research on Cancer):

None of the ingredients are listed.

· Canadian Domestic Substances List (DSL):

All ingredients are listed.

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.

· Date of preparation / last revision May 14, 2018 / October 14, 2026

· 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
CAS: Chemical Abstracts Service (division of the American Chemical Society)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bio-accumulable, Toxic
vPvB: very Persistent and very Bioaccumulative
OSHA: Occupational Safety & Health Administration
Acute Tox. 4: Acute toxicity – Category 4
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
Skin Sens. 1: Skin sensitisation – Category 1

· Sources

(Cont'd. on page 10)

Safety Data Sheet

acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: October 14, 2026

Page: 10/10

Revision: October 14, 2026

Trade name: Spal-Pro Stabilizer Part A

(Cont'd. of page 9)

Website, European Chemicals Agency (echa.europa.eu)

Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/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

SDS Prepared by:

ChemTel Inc.

1305 North Florida Avenue

Tampa, Florida USA 33602-2902

Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573

Website: www.chemtelinc.com

Safety Data Sheet

acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: October 14, 20265

Revision: October 14, 2026

1 Identification

Product identifier

Trade name: Spal-Pro Stabilizer Part B

Other means of identification: No other identifiers

Recommended use and restriction on use

Recommended use: Industrial uses.

Restrictions on use: No relevant information available.

Details of the supplier of the Safety Data Sheet

Manufacturer/Supplier:

METZGER/McGUIRE

Mailing Address:

PO Box 2217

Concord, NH 03302

Shipping Address:

8 Integra Dr.

Concord, NH 03301

Phone: 603-224-6122

Toll Free: 800-223-6680

Email: info@metzgermcguire.com

Emergency telephone number:

ChemTel Inc.

(800) 255-3924 (North America)

+1 (813) 248-0585 (International)

2 Hazard(s) identification

Classification of the substance or mixture

Acute Tox. 4 H332 Harmful if inhaled.

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A 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.

STOT SE 3 H335 May cause respiratory irritation.

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

Label elements

GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms:



GHS07



GHS08

Signal word: Danger

Hazard statements:

H332 Harmful if inhaled.

H315 Causes skin irritation.

(Cont'd. on page 2)

Safety Data Sheet

acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: October 14, 2026

Revision: October 14, 2026

Trade name: Spal-Pro Stabilizer Part B

(Cont'd. of page 1)

H319 Causes serious eye irritation.

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

H317 May cause an allergic skin reaction.

H335 May cause respiratory irritation.

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

Precautionary statements:

P260 Do not breathe mist/vapors/spray.

P264 Wash thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P272 Contaminated work clothing must not be allowed out of the workplace.

P280 Wear protective gloves/protective clothing/eye protection.

P285 In case of inadequate ventilation wear respiratory protection.

P302+P352 If on skin: Wash with plenty of soap and 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.

P312 Call a poison center/doctor if you feel unwell.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P337+P313 If eye irritation persists: Get medical advice/attention.

P342+P311 If experiencing respiratory symptoms: Call a poison center/doctor.

P362+P364 Take off contaminated clothing and wash it before reuse.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

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

3 Composition/information on ingredients

Chemical characterization: Mixtures

Components:

9016-87-9	diphenylmethanediisocyanate, isomeres and homologues	30-35%
	<div> <div> </div> <div> </div> </div> <p>Resp. Sens. 1, H334; STOT RE 2, H373 Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317; STOT SE 3, H335</p>	
157905-72-1	MDI Prepolymer	30-34%
	<div> <div> </div> <div> </div> </div> <p>Resp. Sens. 1, H334; STOT RE 2, H373 Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317; STOT SE 3, H335</p>	
26447-40-5	methylenediphenyl diisocyanate	13-21%
	<div> <div> </div> <div> </div> </div> <p>Resp. Sens. 1, H334; STOT RE 2, H373 Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317; STOT SE 3, H335</p>	
101-68-8	4,4'-methylenediphenyl diisocyanate	12-20%
	<div> <div> </div> <div> </div> </div> <p>Resp. Sens. 1, H334; STOT RE 2, H373 Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317; STOT SE 3, H335</p>	

Additional information:

(Cont'd. on page 3)

Safety Data Sheet

acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: October 14, 2026

Revision: October 14, 2026

Trade name: Spal-Pro Stabilizer Part B

(Cont'd. of page 2)

For the wording of the listed Hazard Statements, refer to section 16.

For the listed ingredient(s), the identity and/or exact percentage(s) are being withheld as a trade secret.

4 First-aid measures

· 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; immediately call for medical help.

· 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.

· Danger:

Danger of impaired breathing.

Harmful if inhaled.

May cause damage to organs through prolonged or repeated exposure.

· Indication of any immediate medical attention and special treatment needed:

Contains 4,4'-methylenediphenyl diisocyanate, diphenylmethanediisocyanate, isomers and homologues, methylenediphenyl diisocyanate, MDI Prepolymer. 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 edema.

Treat skin and mucous membrane with antihistamine and corticoid preparations.

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

5 Fire-fighting measures

· Extinguishing media

(Cont'd. on page 4)

Safety Data Sheet

acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: October 14, 2026

Revision: October 14, 2026

Trade name: Spal-Pro Stabilizer Part B

(Cont'd. of page 3)

· Suitable extinguishing agents:

CO₂, extinguishing powder or water spray. Fight larger fires with water spray.

· For safety reasons unsuitable extinguishing agents:

Water stream.

· Special hazards arising from the substance or mixture

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

· Advice for firefighters

· Protective equipment:

Wear self-contained respiratory protective device.

Do not inhale explosion gases or combustion gases.

Wear fully protective suit.

6 Accidental release measures

· 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.

· Environmental precautions

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

· 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.

· 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.

7 Handling and storage

· Handling

· Precautions for safe handling:

Avoid splashes or spray in enclosed areas.

Use only in well ventilated areas.

Avoid breathing mist, vapors, or spray.

Avoid contact with the eyes and skin.

· Information about protection against explosions and fires:

Keep respiratory protective device available.

· 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 oxidizers, strong acids, strong bases.

· Further information about storage conditions:

Store in cool, dry conditions in well sealed receptacles.

(Cont'd. on page 5)

Safety Data Sheet

acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: October 14, 2026

Revision: October 14, 2026

Trade name: Spal-Pro Stabilizer Part B

(Cont'd. of page 4)

Protect from humidity and water.

Specific end use(s) No relevant information available.

8 Exposure controls/personal protection

Control parameters

Components with limit values that require monitoring at the workplace:

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

PEL (USA)	Ceiling limit value: 0.2 mg/m ³ , 0.02 ppm
REL (USA)	Long-term value: 0.05 mg/m ³ , 0.005 ppm Ceiling limit value: 0.2* mg/m ³ , 0.02* ppm *10-min
TLV (USA)	Long-term value: 0.051 mg/m ³ , 0.005 ppm
EL (Canada)	Long-term value: 0.005 ppm Ceiling limit value: 0.01 ppm Skin; S(R)
EV (Canada)	Long-term value: 0.005 ppm Ceiling limit value: 0.02 ppm
LMPE (Mexico)	Long-term value: 0.005 ppm

Exposure controls

General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.
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.

Engineering controls: No relevant information available.

Breathing equipment:



Combined Organic Vapor 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 relevant information available.

(Cont'd. on page 6)

Safety Data Sheet

acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: October 14, 2026

Revision: October 14, 2026

Trade name: Spal-Pro Stabilizer Part B

(Cont'd. of page 5)

Risk management measures No relevant information available.

9 Physical and chemical properties

Information on basic physical and chemical properties

Appearance:	
Form:	Liquid
Color:	Amber colored
Odor:	Slight.
Odor threshold:	Not determined.

pH-value:	Not determined.
Melting point/Melting range:	Not determined.
Boiling point/Boiling range:	Not determined.

Flash point:	>93 °C (>199.4 °F)
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Flammability (solid, gaseous):	Not applicable.
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Auto-ignition temperature:	>300 °C (>572 °F)
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Decomposition temperature:	Not determined.
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Danger of explosion:	Product does not present an explosion hazard.
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Explosion limits	
Lower:	Not determined.
Upper:	Not determined.
Oxidizing properties:	Non-oxidizing.

Vapor pressure at 25 °C (77 °F):	<0.001 mmHg
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Density:	
Relative density at 25 °C (77 °F):	1.15-1.17
Vapor density:	Not determined.
Evaporation rate:	Not determined.

Solubility in / Miscibility with Water:	Insoluble.
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Partition coefficient (n-octanol/water):	Not determined.
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Viscosity	
Dynamic at 25 °C (77 °F):	350-850 cP
Kinematic:	Not determined.
Other information	No relevant information available.

10 Stability and reactivity

- Reactivity: No relevant information available.
- Chemical stability: Stable under normal temperatures and pressures.
- Thermal decomposition / conditions to be avoided:

(Cont'd. on page 7)

Safety Data Sheet

acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: October 14, 2026

Revision: October 14, 2026

Trade name: Spal-Pro Stabilizer Part B

(Cont'd. of page 6)

No decomposition if used and stored according to specifications.

Possibility of hazardous reactions

Toxic fumes may be released if heated above the decomposition point.

Exothermic polymerization.

Reacts with alcohols, amines, aqueous acids and alkalis.

Reacts with strong oxidizing agents.

Conditions to avoid

Moisture.

Excessive heat.

Incompatible materials Oxidizers, strong bases, strong acids

Hazardous decomposition products

Carbon monoxide and carbon dioxide

Nitrogen oxides (NOx)

Isocyanate

Hydrogen cyanide (prussic acid)

11 Toxicological information

Information on toxicological effects

Acute toxicity: Harmful if inhaled.

LD/LC50 values that are relevant for classification:

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

Oral LD50 2200 mg/kg (mouse)

Primary irritant effect:

On the skin: Irritant to skin and mucous membranes.

On the eye: Irritating effect.

Sensitization: May cause sensitisation by inhalation and skin contact.

IARC (International Agency for Research on Cancer):

None of the ingredients are listed.

NTP (National Toxicology Program):

None of the ingredients are listed.

OSHA-Ca (Occupational Safety & Health Administration):

None of the ingredients are listed.

Probable route(s) of exposure:

Ingestion.

Inhalation.

Eye contact.

Skin contact.

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

Carcinogenicity: Based on available data, the classification criteria are not met.

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.

(Cont'd. on page 8)

Safety Data Sheet

acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: October 14, 2026

Revision: October 14, 2026

Trade name: Spal-Pro Stabilizer Part B

(Cont'd. of page 7)

12 Ecological information

Toxicity

Aquatic toxicity No relevant information available.

Persistence and degradability No relevant information available.

Bioaccumulative potential: No relevant information available.

Mobility in soil: No 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.

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

Other adverse effects No relevant information available.

13 Disposal considerations

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 packagings

Recommendation:

Disposal must be made according to official regulations.

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

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

14 Transport information

UN-Number

DOT, ADR, IMDG, IATA Not regulated.

UN proper shipping name

DOT, ADR, IMDG, IATA Not regulated.

Transport hazard class(es)

DOT, ADR, IMDG, IATA

Class Not regulated.

Packing group

DOT, ADR, IMDG, IATA Not regulated.

(Cont'd. on page 9)

Safety Data Sheet

acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: October 14, 2026

Revision: October 14, 2026

Trade name: Spal-Pro Stabilizer Part B

(Cont'd. of page 8)

- Environmental hazards
- Marine pollutant: No
- Special precautions for user Not applicable.
- Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.

15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- United States (USA)
- SARA

Section 302 (extremely hazardous substances):

None of the ingredients are listed.

Section 355 (extremely hazardous substances):

None of the ingredients are listed.

Section 313 (Specific toxic chemical listings):

9016-87-9 diphenylmethanediisocyanate, isomeres and homologues
101-68-8 4,4'-methylenediphenyl diisocyanate

TSCA (Toxic Substances Control Act)

All ingredients are listed.

Proposition 65 (California)

Chemicals known to cause cancer:

None of the ingredients are listed.

Chemicals known to cause developmental toxicity for females:

None of the ingredients are listed.

Chemicals known to cause developmental toxicity for males:

None of the ingredients are listed.

Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

EPA (Environmental Protection Agency):

9016-87-9	diphenylmethanediisocyanate, isomeres and homologues	CBD
101-68-8	4,4'-methylenediphenyl diisocyanate	D, CBD

IARC (International Agency for Research on Cancer):

None of the ingredients are listed.

Canadian Domestic Substances List (DSL):

All ingredients are listed.

(Cont'd. on page 10)

Safety Data Sheet

acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: October 14, 2026

Revision: October 14, 2026

Trade name: Spal-Pro Stabilizer Part B

(Cont'd. of page 9)

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.

Date of preparation / last revision May 14, 2018 / October 14, 2026

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
CAS: Chemical Abstracts Service (division of the American Chemical Society)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bio-accumulable, Toxic
vPvB: very Persistent and very Bioaccumulative
OSHA: Occupational Safety & Health Administration
Acute Tox. 4: Acute toxicity – Category 4
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
Resp. Sens. 1: Respiratory sensitisation – Category 1
Skin Sens. 1: Skin sensitisation – Category 1
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/sor internet/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.
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