


## 1 Identification

- **Product identifier**
- **Trade name:** SRG Part A POLYOL
- **Other means of identification:** No other identifiers
- **Recommended use and restriction on use**
- **Recommended use:** Industrial uses.
- **Restrictions on use:** For professional use only.
- **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  
 (800) 255-3924 (North America)  
 (801) 1 (813)248-0585 (International)

## 2 Hazard(s) identification

- **Classification of the substance or mixture**  
 Flam. Liq. 4 H227 Combustible liquid.  
 Eye Irrit. 2A H319 Causes serious eye irritation.  
 Repr. 1B H360 May damage fertility or the unborn child. Route of exposure: Oral.
- **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:**  
 H227 Combustible liquid.  
 H319 Causes serious eye irritation.  
 H360 May damage fertility or the unborn child. Route of exposure: Oral.
- **Precautionary statements:**  
 P201 Obtain special instructions before use.  
 P202 Do not handle until all safety precautions have been read and understood.  
 P210 Keep away from flames and hot surfaces. – No smoking.

(Cont'd. on page 2)

## Trade name: SRG Part A POLYOL

- (Cont'd. of page 1)
- P264 Wash thoroughly after handling.
  - P280 Wear protective gloves/protective clothing/eye protection.
  - P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
  - P308+P313 IF exposed or concerned: Get medical advice/attention.
  - P337+P313 If eye irritation persists: Get medical advice/attention.
  - P370+P378 In case of fire: Use for extinction: CO<sub>2</sub>, powder or water spray.
  - P403+P235 Store in a well-ventilated place. Keep cool.
  - 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:

102-60-3	1,1',1'',1'''-ethylenedinitrotetrapropan-2-ol	15-20%
	⚠ Eye Irrit. 2A, H319	
64741-65-7	Naphtha (petroleum), heavy alkylate	<10%
	⚠ Flam. Liq. 3, H226	
	⚠ Asp. Tox. 1, H304	
872-50-4	N-methyl-2-pyrrolidone	<0.3%
	⚠ Repr. 1B, H360	
	⚠ Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335	
	⚠ Flam. Liq. 4, H227	

#### Additional information:

- 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:**  
 Respiration of particulates is unlikely during normal usage.  
 Supply fresh air; consult doctor in case of complaints.  
 Provide oxygen treatment if affected person has difficulty breathing.  
 In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:**  
 Immediately wash with water and soap and rinse thoroughly.  
 Seek medical treatment in case of complaints.
- **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.

(Cont'd. on page 3)

**Trade name:** SRG Part A POLYOL

(Cont'd. of page 2)

- A person vomiting while lying on their back should be turned onto their side.
- **Most important symptoms and effects, both acute and delayed:**
  - Causes eye irritation.
  - Gastric or intestinal disorders when ingested.
  - Nausea in case of ingestion.
- **Danger:**
  - May damage fertility or the unborn child. May cause harm to breast-fed children. Route of exposure: Oral.
- **Indication of any immediate medical attention and special treatment needed:**
  - No relevant information available.

#### 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
  - Foam
  - Carbon dioxide
  - Fire-extinguishing powder
  - Gaseous extinguishing agents
  - Water fog / haze
- **For safety reasons unsuitable extinguishing agents:** Water stream.
- **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**
  - Use respiratory protective device against the effects of fumes/dust/aerosol.
  - Ensure adequate ventilation.
  - Wear protective equipment. Keep unprotected persons away.
  - Particular danger of slipping on leaked/spilled product.
- **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

(Cont'd. on page 4)

**Trade name:** SRG Part A POLYOL

(Cont'd. of page 3)

- **Handling**
- **Precautions for safe handling:**
  - Avoid splashes or spray in enclosed areas.
  - Use only in well ventilated areas.
  - Avoid contact with the eyes and skin.
  - Avoid breathing mist, vapors, or spray.
- **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.
  - Use only receptacles specifically permitted for this substance/product.
- **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.
  - Protect from heat and direct sunlight.
- **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:

##### 872-50-4 N-methyl-2-pyrrolidone

TLV (USA)	BEI
WEEL (USA)	Long-term value: 10 ppm Skin
EV (Canada)	Long-term value: 400 mg/m <sup>3</sup>

##### Ingredients with biological limit values:

##### 872-50-4 N-methyl-2-pyrrolidone

BEI (USA)	100 mg/L Medium: urine Time: end of shift Parameter: 5-Hydroxy-N-methyl-2-pyrrolidone
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- **Exposure controls**
- **General protective and hygienic measures:**
  - The usual precautionary measures for handling chemicals should be followed.
  - 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.
- **Engineering controls:** No relevant information available.
- **Breathing equipment:**
  - Not required under normal conditions of use.
  - For spills, respiratory protection may be advisable.
  - Use suitable respiratory protective device in case of insufficient ventilation.
- **Protection of hands:**

(Cont'd. on page 5)

**Trade name: SRG Part A POLYOL**

(Cont'd. of page 4)


**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**

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:** Various colors

 · **Odor:** Hydrocarbon  
 · **Odor threshold:** Not determined.

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

 · **Flash point:** >60.6 °C (>141.1 °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:** 1.03 (H<sub>2</sub>O=1)  
 · **Vapor density:** >1 (air=1)  
 · **Evaporation rate:** Not determined.

**Solubility in / Miscibility with**

 · **Water:** Slightly soluble.

 · **Partition coefficient (n-octanol/water):** Not determined.

(Cont'd. on page 6)

**Trade name: SRG Part A POLYOL**

(Cont'd. of page 5)

**Viscosity**

 · **Dynamic at 25 °C (77 °F):** 300 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**

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

Reacts with strong acids and alkali.

Reacts with strong oxidizing agents.

 · **Conditions to avoid** Excessive heat.

 · **Incompatible materials** Oxidizers, strong bases, strong acids

 · **Hazardous decomposition products**

Under fire conditions only:

 Sulfur oxides (SO<sub>x</sub>)

 Nitrogen oxides (NO<sub>x</sub>)

Carbon monoxide and carbon dioxide

Hydrocarbons

### 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:**
**64741-65-7 Naphtha (petroleum), heavy alkylate**

Oral	LD50	>6000 mg/kg (rat)
Dermal	LD50	>3000 mg/kg (rabbit)
Inhalative	LC50/4h	>7.8 mg/l (rat)

**872-50-4 N-methyl-2-pyrrolidone**

Oral	LD50	4150 mg/kg (rat)
Dermal	LD50	>5000 mg/kg (rat)

**Primary irritant effect:**
**On the skin:**

Slight irritant effect on skin and mucous membranes.

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

 · **On the eye:** Causes serious eye irritation.

 · **Sensitization:** No sensitizing effects known.

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

(Cont'd. on page 7)

### Safety Data Sheet

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

Printing date: August 27, 2024

Revision: August 27, 2024

Trade name: SRG Part A POLYOL

(Cont'd. of page 6)

None of the ingredients are listed.
· <b>NTP (National Toxicology Program):</b> None of the ingredients are listed.
· <b>OSHA-Ca (Occupational Safety &amp; Health Administration):</b> None of the ingredients are listed.
· <b>Probable route(s) of exposure:</b> Ingestion. Eye contact. Skin contact.
· <b>Germ cell mutagenicity:</b> Based on available data, the classification criteria are not met.
· <b>Carcinogenicity:</b> Based on available data, the classification criteria are not met.
· <b>Reproductive toxicity:</b> May damage fertility or the unborn child. Route of exposure: Oral.
· <b>STOT-single exposure:</b> Based on available data, the classification criteria are not met.
· <b>STOT-repeated exposure:</b> Based on available data, the classification criteria are not met.
· <b>Aspiration hazard:</b> Based on available data, the classification criteria are not met.

### 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.
- **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.

### 14 Transport information

- **UN-Number**
- **DOT** NA1993
- **ADR/RID/ADN, IMDG, IATA** Not regulated.
- **UN proper shipping name**

(Cont'd. on page 8)

### Safety Data Sheet

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

Printing date: August 27, 2024

Revision: August 27, 2024

Trade name: SRG Part A POLYOL

(Cont'd. of page 7)

· <b>DOT</b>	Combustible liquid, n.o.s. (Naphtha (petroleum), heavy alkylate, N-methyl-2-pyrrolidone)
· <b>ADR/RID/ADN, IMDG, IATA</b>	Not regulated.
· <b>Transport hazard class(es)</b>	
· <b>DOT</b>	
· <b>Class</b>	3
· <b>Label</b>	3
· <b>ADR/RID/ADN, IMDG, IATA</b>	
· <b>Class</b>	Not regulated.
· <b>Packing group</b>	
· <b>DOT</b>	III
· <b>ADR/RID/ADN, IMDG, IATA</b>	Not regulated.
· <b>Environmental hazards</b>	
· <b>Marine pollutant:</b>	No
· <b>Special precautions for user</b>	Not applicable.
· <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
· <b>Transport/Additional information:</b>	
· <b>DOT</b>	Classified as combustible under US DOT regulations. Labeling is only required for single packages ≥119 US gal / 450 L.

### 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 313 (Specific toxic chemical listings):** | None of the ingredients are listed. |
| · **TSCA (Toxic Substances Control Act)** | All ingredients are listed or exempt. |
| · **Proposition 65 (California)** |  |
| · **Chemicals known to cause cancer:** |  |

(Cont'd. on page 9)

## Safety Data Sheet

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

Printing date: August 27, 2024

Revision: August 27, 2024

**Trade name: SRG Part A POLYOL**

(Cont'd. of page 8)

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:**

872-50-4 | N-methyl-2-pyrrolidone

**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 or exempt.

### 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: July 08, 2020 / August 27, 2024

**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

OSHA: Occupational Safety &amp; Health Administration

Flam. Liq. 3: Flammable liquids – Category 3

Flam. Liq. 4: Flammable liquids – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A

Repr. 1B: Reproductive toxicity – Category 1B

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

Asp. Tox. 1: Aspiration hazard – Category 1

**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., Klaassen, Curtis D., ed., ISBN: 978-0-07-176923-5.

Safety Data Sheets, Individual Manufacturers

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## Safety Data Sheet

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

Printing date: August 27, 2024

Revision: August 27, 2024

### 1 Identification

**Product identifier**
**Trade name:** SRG Part B ISO
**Other means of identification:** No other identifiers

**Recommended use and restriction on use**
**Recommended use:** Industrial uses.

**Restrictions on use:** For professional use only.

**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

(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 the respiratory system through prolonged or repeated exposure. Route of exposure: Inhalation.

**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.

(Cont'd. on page 2)

## Safety Data Sheet

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

Printing date: August 27, 2024

Revision: August 27, 2024

**Trade name: SRG Part B ISO**

(Cont'd. of page 1)

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.  
 H335 May cause respiratory irritation.  
 H373 May cause damage to the respiratory system through prolonged or repeated exposure. Route of exposure: Inhalation.

**Precautionary statements:**

P260 Do not breathe dust/fume/gas/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.  
 P284 [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.  
 P314 Get medical advice/attention 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	36-43%
	<ul style="list-style-type: none"> <li>⚠ Resp. Sens. 1, H334; STOT RE 2, H373</li> <li>⚠ Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317; STOT SE 3, H335</li> </ul>	
101-68-8	4,4'-methylenediphenyl diisocyanate	23-30%
	<ul style="list-style-type: none"> <li>⚠ Resp. Sens. 1, H334; STOT RE 2, H373</li> <li>⚠ Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317; STOT SE 3, H335</li> </ul>	

**Additional information:**

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

(Cont'd. on page 3)

## Safety Data Sheet

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

Printing date: August 27, 2024

Revision: August 27, 2024

**Trade name: SRG Part B ISO**

(Cont'd. of page 2)

**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.

**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 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**
**Suitable extinguishing agents:**

Foam  
 Carbon dioxide  
 Fire-extinguishing powder  
 Gaseous extinguishing agents  
 Water fog / haze

**For safety reasons unsuitable extinguishing agents:** Water stream.

(Cont'd. on page 4)

Trade name: SRG Part B ISO

(Cont'd. of page 3)

- **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**  
Isolate area and prevent access.  
Use respiratory protective device against the effects of fumes/dust/aerosol.  
Wear protective equipment. Keep unprotected persons away.  
Ensure adequate ventilation.
- **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.  
Protect from humidity and water.  
Protect from heat and direct sunlight.
- **Specific end use(s)** No relevant information available.

(Cont'd. on page 5)

Trade name: SRG Part B ISO

(Cont'd. of page 4)

#### 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 <sup>3</sup> , 0.02 ppm
REL (USA)	Long-term value: 0.05 mg/m <sup>3</sup> , 0.005 ppm Ceiling limit value: 0.2* mg/m <sup>3</sup> , 0.02* ppm *10-min
TLV (USA)	Long-term value: 0.051 mg/m <sup>3</sup> , 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

Avoid release to the environment.

· **Risk management measures** No relevant information available.

(Cont'd. on page 6)

Trade name: SRG Part B ISO

(Cont'd. of page 5)

#### 9 Physical and chemical properties

##### Information on basic physical and chemical properties

###### Appearance:

- **Form:** Liquid
- **Color:** Amber colored
- **Odor:** Musty.
- **Odor threshold:** Not determined.

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

- **Flash point:** >93.3 °C (>199.9 °F) (closed cup)

- **Flammability (solid, gaseous):** Not applicable.

- **Auto-ignition temperature:** >300 °C (>572 °F)

- **Decomposition temperature:** Not determined.

- **Danger of explosion:** Product does not present an explosion hazard.

###### Explosion limits

- **Lower:** Not determined.
- **Upper:** Not determined.
- **Oxidizing properties:** Not determined.

- **Vapor pressure at 25 °C (77 °F):** <0.001 mmHg

###### Density:

- **Relative density:** 1.13 (H<sub>2</sub>O=1)
- **Vapor density:** >1 (air=1)
- **Evaporation rate:** Not determined.

###### Solubility in / Miscibility with

- **Water:** Slowly reacts with water.

- **Partition coefficient (n-octanol/water):** Not determined.

###### Viscosity

- **Dynamic at 25 °C (77 °F):** 200 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** Toxic fumes may be released if heated above the decomposition point. Exothermic polymerization.

(Cont'd. on page 7)

Trade name: SRG Part B ISO

(Cont'd. of page 6)

- 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 sensitization 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 the respiratory system through prolonged or repeated exposure. Route of exposure: Inhalation.

- **Aspiration hazard:** Based on available data, the classification criteria are not met.

#### 12 Ecological information

##### Toxicity

(Cont'd. on page 8)



## Safety Data Sheet

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

Printing date: August 27, 2024

Revision: August 27, 2024

Trade name: SRG Part B ISO

(Cont'd. of page 7)

- **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.
- **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.

### 14 Transport information

- |  |                 |
|--|-----------------|
| · <b>UN-Number</b>   |                 |
| · <b>DOT, ADR/RID/ADN, IMDG, IATA</b>  | Not regulated.  |
| · <b>UN proper shipping name</b>   |                 |
| · <b>DOT, ADR/RID/ADN, IMDG, IATA</b>  | Not regulated.  |
| · <b>Transport hazard class(es)</b>  |                 |
| · <b>DOT, ADR/RID/ADN, IMDG, IATA</b>  |                 |
| · <b>Class</b>   | Not regulated.  |
| · <b>Packing group</b>   |                 |
| · <b>DOT, ADR/RID/ADN, IMDG, IATA</b>  | Not regulated.  |
| · <b>Environmental hazards</b>   |                 |
| · <b>Marine pollutant:</b>   | No              |
| · <b>Special precautions for user</b>  | Not applicable. |
| · <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b> | Not applicable. |

### 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

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

Printing date: August 27, 2024

Revision: August 27, 2024

Trade name: SRG Part B ISO

(Cont'd. of page 8)

#### · SARA

##### · Section 302 (extremely hazardous substances):

None of the ingredients are listed.

##### · Section 313 (Specific toxic chemical listings):

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

##### · TSCA (Toxic Substances Control Act)

All ingredients are listed or exempt.

##### · 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, isomers 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 or exempt.

### 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: July 08, 2020 / August 27, 2024

#### · 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  
 OSHA: Occupational Safety & Health Administration  
 Acute Tox. 4: Acute toxicity – Category 4  
 Skin Irrit. 2: Skin corrosion/irritation – Category 2

(Cont'd. on page 10)

**Safety Data Sheet**

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

Printing date: August 27, 2024

Revision: August 27, 2024

**Trade name: SRG Part B ISO**

(Cont'd. of page 9)

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](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  
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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