

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

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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: 807 Route 3-A Bow, NH 03304

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

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.

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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 | F 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: CO2, 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	102-60-3 1,1',1",1"'-ethylenedinitrilotetrapropan-2-ol				
	♦ Eye Irrit. 2A, H319				
64741-65-7	64741-65-7 Naphtha (petroleum), heavy alkylate				
	Flam. Liq. 3, H226Asp. 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.

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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

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Handling

Precautions for safe handling:

Avoid splashes or spray in enclosed areas.

Use only in well ventilated areas.

Avoid contact with the eves 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 v	vith limit values	s that require	monitoring at the workplace:
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872-50-4 N-methyl-2-pyrrolidone

TLV (USA)

WEEL (USA) Long-term value: 10 ppm

Skir

EV (Canada) Long-term value: 400 mg/m³

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

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:

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Protective gloves

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

· Eye protection:



Safety glasses

· 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:	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□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.			
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· Viscosity

Dynamic at 25 °C (77 °F):

Kinematic: Not determined.

Other information No relevant information available.

300 cP

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 (SOx)

Nitrogen oxides (NOx)

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.

Ш	LD/LC50 values that are relevant for classification:			
П	64741-65-7 Naphtha (petroleum), heavy alkylate			
Ш	Oral LD50 >6000 mg/kg (rat)			
Ш	Dermal	LD50	>3000 mg/kg (rabbit)	
Inhalative LC50/4h >7.8 mg/l (rat)			>7.8 mg/l (rat)	
П	872-50-4 N-methyl-2-pyrrolidone			
Ш	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):

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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: May damage fertility or the unborn child. Route of exposure: Oral.

• 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 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 · ADR/RID/ADN, IMDG, IATA NA1993 Not regulated.

UN proper shipping name

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· DOT	Combustible liquid, n.o.s. (Naphtha (petroleum), heavy alkylate, N-methyl-2-pyrrolidone)
· ADR/RID/ADN, IMDG, IATA	Not regulated.
Transport hazard class(es)	
· DOT	
· Class	3
· Label	3
· ADR/RID/ADN, IMDG, IATA	
· Class	Not regulated.
Packing group	
DOT	III
· ADR/RID/ADN, IMDG, IATA	Not regulated.
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.
· Transport/Additional information:	
· DOT	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:

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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.

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

Flam. Liq. 3: Flammable liquids - Category 3

Flam. Liq. 4: Flammable liquids - Category 4

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

Eve 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., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5.

Safety Data Sheets, Individual Manufacturers

SDS Prepared by:

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1305 North Florida Avenue

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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:

807 Route 3-A

Bow, NH 03304

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.

Eve Irrit. 2A H319 Causes serious eve 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:



Signal word: Danger

Hazard statements:

H332 Harmful if inhaled

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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:

Do not breathe dust/fume/gas/mist/vapors/spray. P260 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 eve 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

Growing Grand Contraction in Material			
· Components:			
9016-87-9 diphenylmethanediisocyanate,isomeres and homologues	36-43%		
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			
101-68-8 4,4'-methylenediphenyl diisocyanate	23-30%		
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			

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

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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 eve contact:

Remove contact lenses if worn.

Rinse opened eve 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.

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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.

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8 Exposure controls/personal protection

Control parameters

Components with limit values that require monitoring at the workplace:				
101-68-8 4,4'-m	101-68-8 4,4'-methylenediphenyl diisocyanate			
PEL (USA) Ceiling limit value: 0.2 mg/m³, 0.02 ppm				
REL (USA)	Long-term value: 0.05 mg/m³, 0.005 ppm Ceiling limit value: 0.2* mg/m³, 0.02* ppm *10-min			
TLV (USA)	Long-term value: 0.051 mg/m³, 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.

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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□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.

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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

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- · 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			
14 Transport information			
UN-Number			
· DOT, ADR/RID/ADN, IMDG, IATA	Not regulated.		
UN proper shipping name			
DOT, ADR/RID/ADN, IMDG, IATA	Not regulated.		
Transport hazard class(es)			
DOT, ADR/RID/ADN, IMDG, IATA			
Class	Not regulated.		
Packing group			
DOT, ADR/RID/ADN, IMDG, IATA	Not regulated.		
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)

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· SARA	(Cont'd. of page 8)
Section 302 (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 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,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):	

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.

· Abbreviations and acronyms:

All ingredients are listed or exempt.

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

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

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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

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