



Kit Revision Date: 5/26/2025

8800 BLACK FLEXIBLE URETHANE KIT

MG Chemicals Multipart Product Kit

This product is a kit made up of multiple parts. Each part is an independently packaged chemical component and has independent hazard assessments.

Kit Content

| <i>Part</i> | <i>Product Name</i> | <i>Product Use</i> |
|-------------|---------------------|--------------------|
| A | 8800-A | Epoxy Resin |
| B | 8800-B | Epoxy hardener |

Safety Data Sheets for each part listed above follow this cover sheet.

Transportation Instruction

Before offering this product kit for transport, read Section 14 for all parts listed above.

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* 1 Identification

· Product identifier

· Trade name: 8800-A

· Other Means of Identification: Black Flexible Urethane (Part A)

· Related Part Number: 8800-Part A, 8800-375ML, 8800-2.55L, 8800-10.8L, 8800-60L

· Application of the substance / the mixture Urethane resin

· Uses advised against Not applicable

· Details of the supplier of the safety data sheet

Manufacturer/Supplier:

MG Chemicals (Head Office)

1210 Corporate Drive

Burlington, Ontario L7L 5R6

CANADA

+(1) 800-340-0772

+(1) 905-331-1396

info@mgchemicals.com

Distributor:

Masline

511 Clinton Ave S

Rochester, New York 14620

United States

+(1) 586-546-5373

· Information department: sds@mgchemicals.com

· Emergency telephone number:

For hazardous material incidents ONLY (leaks, spills, fires, exposures or accidents)

USA or CANADA-Call Verisk 3E at +1-866-519-4752 or +1-760-476-3962 (Service access code: 335388)

For emergencies involving the transport of dangerous goods; 24/7 service

CANADA-Call CANUTEC collect at +1-613-996-6666 or *666 on cellular phones

* 2 Hazard identification

· Classification of the substance or mixture

Sensitization - skin – Category 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

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· **Signal word** Warning

· **Hazard-determining components of labeling:**

2-ethylhexyl 3,5,5-trimethylhexanoate
reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight \leq 700)
oxirane, mono[(C12-14-alkyloxy)methyl] derivs

· **Hazard statements**

H317 May cause an allergic skin reaction.

· **Precautionary statements**

P102 Keep out of reach of children.

P261 Avoid breathing fumes and vapors.

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

P280 Wear protective gloves.

P302+P352 IF ON SKIN: Wash with plenty of water.

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

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

P501 Dispose of contents and container in accordance with local, regional, and national regulations.

· **Other hazards** Not available

3 Composition/Information on ingredients

· **Chemical characterization: Mixtures**

· **Description:** Mixture of the substances listed below with nonhazardous additions.

· **Dangerous components:**

| | | |
|------------|----------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| 1318-02-1 | zeolites | 10.0% w/w |
| 70969-70-9 | 2-ethylhexyl 3,5,5-trimethylhexanoate | 3.0% w/w |
| 25068-38-6 | reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight \leq 700) Alternative CAS number: 1675-54-3 | 0.6% w/w |
| 1333-86-4 | Carbon black | 0.2% w/w |
| 68609-97-2 | oxirane, mono[(C12-14-alkyloxy)methyl] derivs | 0.2% w/w |

4 First-aid measures

· **Description of first aid measures**

· **General information:** Immediately remove any clothing soiled by the product.

· **After inhalation:** Remove person to fresh air and keep comfortable for breathing.

· **After skin contact:**

Wash with plenty water.

If skin irritation or rash occurs: Get medical advice or attention.

Take off contaminated clothing and wash it before reuse.

· **After eye contact:**

Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If symptoms persist consult doctor.

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- **After swallowing:**
Rinse mouth.
Do NOT induce vomiting.
If symptoms persist consult doctor.
- **Most important symptoms and effects, both acute and delayed**
No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire-fighting measures

- **Extinguishing media**
 - **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.
- **Special hazards arising from the substance or mixture**
Not flammable or combustible, but burns if involved in a fire. Produces irritating smoke of unknown toxicity in fires.
Prevent fire-fighting wash from entering waterway or sewer system.
- **Hazardous combustion products:**
Carbon Oxides (COx)
other toxic fumes
- **Advice for firefighters**
 - **Protective equipment:** Wear self-contained breathing apparatus and full fire-fighting turn-out gear.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Avoid breathing mist, spray, or vapors.
Remove or keep away all sources of extreme heat or open flames.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Collect liquid in a sealable, chemical-resistant container.
Wash residue with a paper towel and place dirty towels in container.
Use soap and water to remove the last traces of residue.
- **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.

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7 Handling and storage

· Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.
Wear protective gloves and eye protection.
Wash hands and exposed skin thoroughly after handling.
Take off contaminated clothing and wash it before reuse.
Contaminated work clothing should not be allowed out of the workplace.
Avoid breathing mist, spray, or vapors.

· Information about protection against explosions and fires: No special measures required.

· Conditions for safe storage, including any incompatibilities

· Storage:

- Requirements to be met by storerooms and receptacles:
Keep in a dry and clean area, away from incompatible substances
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions: None.

· Specific end use(s) See section 1.2

8 Exposure controls/ Personal protection

· Control parameters

· Components with limit values that require monitoring at the workplace:

| 1333-86-4 Carbon black | |
|------------------------|------------------------------------------------------------------------------------|
| EL (Canada) | TWA: 3 mg/m ³ IARC 2B |
| EV (Canada) | TWA: 3.5 mg/m ³ |
| PEL (USA) | TWA: 3.5 mg/m ³ |
| REL (USA) | TWA: 3.5* mg/m ³ *0.1 in presence of PAHs; See Pocket Guide Apps.A+C |
| TLV (USA) | TWA: 3* mg/m ³ *inhalable fraction, A3 |

· Additional information:

The lists that were valid during the creation were used as basis.
Refer to the national or regional occupational exposure limit regulation for abbreviations and acronyms.

· Exposure controls

· Appropriate engineering controls No further data; see section 7.

· Personal protective equipment:

· General protective and hygienic measures:

Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.

· Breathing equipment:

Advice should be sought from respiratory protection specialists.

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In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

If the product is heated or worker has a known allergic reaction, consider using a full mask with organic vapor cartridge or with an independent air supply.

· **Protection of hands:**

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.



Protective gloves: EN374

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:** Goggles recommended during refilling.

9 Physical and chemical properties

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

| | |
|---------------------------------------|------------------------|
| · Physical state: | Liquid |
| · Form: | Viscous |
| · Color: | Black |
| · Odor: | Mild |
| · Odor threshold: | Not determined. |
| · Melting point/Melting range: | Undetermined. |
| · Boiling point/Boiling range: | ≥284 °C (≥543.2 °F) |
| · Flammability: | Non flammable |
| · Explosion limits: | |
| · Lower: | Not applicable |
| · Upper: | Not applicable |
| · Flash point: | >131 °C (>267.8 °F) |
| · Auto igniting: | 242 °C (467.6 °F) |
| · Decomposition temperature: | Not determined. |
| · pH-value: | Not determined. |
| · Viscosity: | |
| · Kinematic at 20 °C (68 °F): | 305 mm ² /s |
| · Dynamic: | Not determined. |

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| | |
|---------------------------------------------------------------------------------|-----------------------------------------------|
| · Solubility in / Miscibility with | |
| · Water: | Fully miscible. |
| · Partition coefficient (n-octanol/water): | Not determined. |
| · Vapor pressure: | Not determined. |
| · Vapor pressure: | |
| · Density at 20 °C (68 °F): | 1.06 g/cm³ (8.8457 lbs/gal) |
| · Relative density at 25 °C (77 °F): | 1.06 |
| · Vapor density (air=1): | Not determined. |
| · Particle characteristics | Not applicable. |
| · Other information | |
| · Important information on protection of health and environment, and on safety. | |
| · Ignition temperature: | Product is not selfigniting. |
| · Danger of explosion: | Product does not present an explosion hazard. |
| · Solvent content: | |
| · Organic solvents: | Not available |
| · VOC content: | 0.000 % |
| · Solids content: | 0.0 g/l / 0.00 lb/gal |
| · Evaporation rate | 90.0 % |
| | <1 (ButAc=1) |

10 Stability and reactivity

- **Reactivity** Reacts exothermically with amines.
- **Chemical stability** Chemically stable at normal temperatures and pressures.
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** Avoid open flames, excessive heat, sparks, ignition sources, and incompatible substances.
- **Incompatible materials:**
Strong oxidizing agents
Strong acids
alkali
- **Hazardous decomposition products:**
No dangerous decomposition products known.
Hazardous combustion products: see section 5.

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11 Toxicological information

- Information on toxicological effects

- Acute toxicity:

- LD/LC50 values that are relevant for classification:

| | | |
|----------------------------------------------------------------------------------------------------------------------|------|-----------------------|
| 25068-38-6 reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700) | | |
| Oral | LD50 | 11,400 mg/kg (rat) |
| 1333-86-4 Carbon black | | |
| Oral | LD50 | >15,400 mg/kg (rat) |
| Dermal | LD50 | >3,000 mg/kg (rabbit) |
| 68609-97-2 oxirane, mono[(C12-14-alkyloxy)methyl] derivs | | |
| Oral | LD50 | 19,200 mg/kg (rat) |
| Dermal | LD50 | 4,500 mg/kg (rat) |

- Sensitization: Sensitization possible through skin contact.

- Summary of effects and symptoms by route of exposure**

- Eyes:**

- redness
 - pain
 - blurred vision

- Skin:**

- dry skin
 - rash, allergic contact dermatitis

- Inhalation:**

- Low toxicity:
 - may cause mild respiratory irritation

- Swallowed:**

- Low toxicity:
 - abdominal pain
 - nausea
 - diarrhea

- Delayed and immediate effects as well as chronic effects from short and long-term exposure**

Prolonged or repeated exposure may cause skin allergies.

- Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:

Irritant

- Carcinogenic categories**

| | | |
|-----------------------------------------------------------|--------------|----|
| IARC (International Agency for Research on Cancer) | | |
| 1318-02-1 | zeolites | 3 |
| 1333-86-4 | Carbon black | 2B |

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- NTP (National Toxicology Program)

None of the ingredients is listed.

12 Ecological information

· Toxicity

· Aquatic toxicity:

1333-86-4 Carbon black

| | |
|------------|------------------------------------------------|
| EC50/ 24 h | >5,600 mg/L (aquatic invertebrates) |
| EC50/ 72 h | >10,000 mg/L (aquatic algae and cyanobacteria) |
| EC0/ 3 h | >800 mg/L (microorganisms) |
| LC50 | >1,000 mg/L (fish) |

· Persistence and degradability No further relevant information available.

· Bioaccumulative potential No further relevant information available.

· Mobility in soil No further relevant information available.

· Results of PBT and vPvB assessment

· PBT: Not applicable.

· vPvB: Not applicable.

· Other adverse effects No further relevant information available.

13 Disposal considerations

· Waste treatment methods

· Recommendation: This material and its container must be disposed of as hazardous waste.

· Uncleaned packagings:

· Recommendation:

Containers may still present a chemical hazard/ danger when empty.

Dispose of contents in accordance with all local, regional, national, and international regulations.

Where possible retain label warnings and SDS and observe all notices pertaining to the product.

· Recommended cleansing agent:

Water, if necessary with cleansing agents.

14 Transport information

· UN-Number

· DOT/TDG, IMDG, IATA

not regulated

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| | |
|---------------------------------------------------------------------------|-----------------|
| · UN proper shipping name | |
| · DOT/TDG, IMDG, IATA | not regulated |
| · Transport hazard class(es) | |
| · DOT/TDG, ADN, IMDG, IATA | |
| · Class | not regulated |
| · Packing group | |
| · DOT/TDG, IMDG, IATA | Not applicable |
| · Environmental hazards: | Not applicable. |
| · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | Not applicable. |
| · Special precautions for user | Not applicable. |
| · UN "Model Regulation": | not regulated |

*15 Regulatory information

· Safety, health and environmental regulations/legislation specific for the substance or mixture

· OSHA Hazard Communication Standard (29 CFR Part 1900)

The safety data sheet and label comply with HCS 2024.

· Hazardous Products Act (R.S.C., 1985, c. H-3)

The safety data sheet and label comply with the Hazardous Product Act and WHMIS 2023.

· Sara

· Section 355 (extremely hazardous substances):

None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

· TSCA (Toxic Substances Control Act):

| | | |
|------------|---------------------------------------------------------------------------------------------------------|--------|
| 70969-70-9 | 2-ethylhexyl 3,5,5-trimethylhexanoate | ACTIVE |
| 25068-38-6 | reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight \leq 700) | ACTIVE |
| 1333-86-4 | Carbon black | ACTIVE |
| 68609-97-2 | oxirane, mono[(C12-14-alkyloxy)methyl] derivs | ACTIVE |

· Hazardous Air Pollutants

None of the ingredients is listed.

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· Proposition 65

· Chemicals known to cause cancer:

1333-86-4 Carbon black

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· Carcinogenic categories

· TLV (Threshold Limit Value)

| | | |
|-----------|--------------|----|
| 1333-86-4 | Carbon black | A4 |
|-----------|--------------|----|

· NIOSH-Ca (National Institute for Occupational Safety and Health)

| | |
|-----------|--------------|
| 1333-86-4 | Carbon black |
|-----------|--------------|

· Canadian substance listings:

· Canadian Domestic Substances List (DSL)

| | |
|------------|---------------------------------------------------------------------------------------------------------|
| 1318-02-1 | zeolites |
| 25068-38-6 | reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight \leq 700) |
| 1333-86-4 | Carbon black |
| 68609-97-2 | oxirane, mono[(C12-14-alkyloxy)methyl] derivs |

· Canadian Non-Domestic Substances List (NDSL)

| | |
|------------|---------------------------------------|
| 70969-70-9 | 2-ethylhexyl 3,5,5-trimethylhexanoate |
|------------|---------------------------------------|

· Canadian Ingredient Disclosure list (limit 0.1%)

| |
|------------------------------------|
| None of the ingredients is listed. |
|------------------------------------|

· Canadian Ingredient Disclosure list (limit 1%)

| |
|------------------------------------|
| None of the ingredients is listed. |
|------------------------------------|

· HMIS-ratings (scale 0 - 4)

Health = * 2

Fire = 1

Reactivity = 0

· Europe

· RoHS (Restriction of Hazardous Substances Directive)

This product does not contain any lead, cadmium, mercury, hexavalent chromium, PBB's, PBDE's, DEHP, BBP, DBP, or DIBP and complies with European RoHS regulations.

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· **WEEE (Waste Electrical and Electronic Equipment Directive)**

This product is not a piece of electrical or electronics equipment, and is therefore not governed by this regulation.

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.

· **Department issuing SDS:** Regulatory department

· **Contact:** sds@mgchemicals.com

· **Version number of previous version:** 4.00

· **Date of preparation** 05/26/2025

· **Abbreviations and acronyms:**

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

· * **Data compared to the previous version altered.**

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* 1 Identification

· Product identifier

· Trade name: 8800-B

· Other Means of Identification: Black Flexible Urethane (Part B)

· Related Part Number: 8800-Part B, 8800-375ML (B), 8800-2.55L (B), 8800-10.8L (B), 8800-60L (B)

· Application of the substance / the mixture Urethane hardener for use with resins

· Uses advised against For industrial use only

· Details of the supplier of the safety data sheet

Manufacturer/Supplier:

MG Chemicals (Head Office)

1210 Corporate Drive

Burlington, Ontario L7L 5R6

CANADA

+(1) 800-340-0772

+(1) 905-331-1396

info@mgchemicals.com

Distributor:

Masline

511 Clinton Ave S

Rochester, New York 14620

United States

+(1) 586-546-5373

· Information department: sds@mgchemicals.com

· Emergency telephone number:

For hazardous material incidents ONLY (leaks, spills, fires, exposures or accidents)

USA or CANADA-Call Verisk 3E at +1-866-519-4752 or +1-760-476-3962 (Service access code: 335388)

For emergencies involving the transport of dangerous goods; 24/7 service

CANADA-Call CANUTEC collect at +1-613-996-6666 or *666 on cellular phones

* 2 Hazard identification

· Classification of the substance or mixture

Acute Toxicity (Inhalation) - Category 4

H332 Harmful if inhaled.

Skin Irritation - Category 2

H315 Causes skin irritation.

Eye damage/irritation – Category 2A

H319 Causes serious eye irritation.

Sensitization - respiratory – Category 1

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

Sensitization - skin – Category 1

H317 May cause an allergic skin reaction.

Specific target organ toxicity (single exposure) – Category 3

H335 May cause respiratory irritation.

Specific target organ toxicity (repeated exposure) – Category 2

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

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· 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-determining components of labeling:

4,4'-methylenediphenyl diisocyanate
diphenylmethanediisocyanate, isomeres and homologues

· Hazard statements

H332 Harmful if inhaled.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

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

H317 May cause an allergic skin reaction.

H335 May cause respiratory irritation.

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

· Precautionary statements

P102 Keep out of reach of children.

P260 Do not breathe mist/vapors/spray.

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

P280 Wear protective gloves, protective clothing, and eye protection.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor.

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

· Other hazards Not available

3 Composition/Information on ingredients

· Chemical characterization: Mixtures

· Description: Mixture of the substances listed below with nonhazardous additions.

· Dangerous components:

| | | |
|-----------|------------------------------------------------------|--------------|
| 101-68-8 | 4,4'-methylenediphenyl diisocyanate | 45–70% w/w * |
| 9016-87-9 | diphenylmethanediisocyanate, isomeres and homologues | 15–40% w/w * |

* Actual concentration ranges are withheld as a trade secret.

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4 First-aid measures

· Description of first aid measures

· General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· After inhalation:

Remove person to fresh air and keep comfortable for breathing.

If feeling unwell: Call a POISON CENTRE or doctor.

If experiencing respiratory symptoms: Call a POISON CENTER or doctor.

In case of unconsciousness place patient stably in side position for transportation.

· After skin contact:

Wash with plenty water.

If skin irritation or rash occurs: Get medical advice or attention.

Take off contaminated clothing and wash it before reuse.

· After eye contact:

Rinse cautiously with water for 20 minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice or attention.

· After swallowing:

Rinse mouth.

Do NOT induce vomiting.

If symptoms persist consult doctor.

· Most important symptoms and effects, both acute and delayed

No further relevant information available.

· Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 Fire-fighting measures

· Extinguishing media

· Suitable extinguishing agents: Use fire fighting measures that suit the environment.

· Special hazards arising from the substance or mixture

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

Not flammable or combustible, but burns if involved in a fire. Produces irritating smoke of unknown toxicity in fires.

Prevent fire-fighting wash from entering waterway or sewer system.

· Hazardous combustion products:

Carbon Oxides (COx)

Nitrogen Oxides (NOx)

cyanates

· Advice for firefighters

· Protective equipment: Wear self-contained breathing apparatus and full fire-fighting turn-out gear.

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6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**

Do not breathe the mist/vapors/spray/fumes.
Remove or keep away all sources of extreme heat or open flames.

- **Environmental precautions:**

Avoid release to the environment.
Do not allow to enter sewers/ surface or ground water.

- **Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Collect liquid in a sealable, chemical-resistant container.
Wash residue with a paper towel and place dirty towels in container.
Use soap and water to remove the last traces of residue.

- **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

- **Precautions for safe handling**

Wear protective gloves and eye protection.
Wash hands and exposed skin thoroughly after handling.
Take off contaminated clothing and wash it before reuse.
Contaminated work clothing should not be allowed out of the workplace.
Use only outdoors or in a well-ventilated area.
Do not breathe mist, vapours, spray.
In case of inadequate ventilation wear respiratory protection.

- **Information about protection against explosions and fires:**

Keep respiratory protective device available.

- **Conditions for safe storage, including any incompatibilities**

- **Storage:**

- **Requirements to be met by storerooms and receptacles:**
Keep in a dry and clean area, away from incompatible substances
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
Keep receptacle tightly sealed.
Store locked up.

- **Specific end use(s)** See section 1.2

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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'-methylenediphenyl diisocyanate | |
|----------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| EL (Canada) | TWA: 0.005 ppm Ceiling: 0.01 ppm S(R) |
| EV (Canada) | TWA: 0.005 ppm Ceiling: 0.02 ppm |
| PEL (USA) | Ceiling: 0.2 mg/m ³ , 0.02 ppm |
| REL (USA) | TWA: 0.05 mg/m ³ , 0.005 ppm Ceiling: 0.2* mg/m ³ , 0.02* ppm *10-min |
| TLV (USA) | TWA: 0.051 mg/m ³ , 0.005 ppm |
| 9016-87-9 diphenylmethanediisocyanate, isomeres and homologues | |
| EL (Canada) | TWA: 0.005 ppm Ceiling: 0.01 ppm |

· Additional information:

The lists that were valid during the creation were used as basis.

Refer to the national or regional occupational exposure limit regulation for abbreviations and acronyms.

· Exposure controls

· Appropriate engineering controls

No further data; see section 7.

· Personal protective equipment:

· General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Store protective clothing separately.
Do not inhale gases / fumes / aerosols.
Avoid contact with the eyes and skin.

· Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
Advice should be sought from respiratory protection specialists.

If the product is heated or worker has a known allergic reaction, consider using a full mask with organic vapor cartridge or with an independent air supply.

· Protection of hands:

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.



Protective gloves: EN374

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

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· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**



Safety glasses or tightly sealed goggles: EN 166

9 Physical and chemical properties

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

| | |
|---------------------------------------------------|---------------------|
| · Physical state | Liquid |
| · Form: | Viscous |
| · Color: | Dark brown |
| · Odor: | Musty |
| · Odor threshold: | Not determined. |
| · Melting point/Melting range: | Undetermined. |
| · Boiling point/Boiling range: | ≥204 °C (≥399.2 °F) |
| · Flammability: | Non flammable |
| · Explosion limits: | |
| · Lower: | Not applicable |
| · Upper: | Not applicable |
| · Flash point: | >230 °C (>446 °F) |
| · Auto igniting: | 400 °C (752 °F) |
| · Decomposition temperature: | Not determined. |
| · pH-value: | Not determined. |
| · Viscosity: | |
| · Kinematic: | Not determined. |
| · Dynamic: | Not determined. |
| · Solubility in / Miscibility with | |
| · Water: | Insoluble. |
| · Partition coefficient (n-octanol/water): | Not determined. |
| · Vapor pressure: | |
| · Relative density at 25 °C (77 °F): | 1.24 |
| · Vapor density (air=1): | Not determined. |
| · Particle characteristics | Not applicable. |

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· Other information

· Important information on protection of health and environment, and on safety.

| | |
|-------------------------|-----------------------------------------------|
| · Ignition temperature: | Product is not selfigniting. |
| · Danger of explosion: | Product does not present an explosion hazard. |
| · Solvent content: | |
| · Organic solvents: | Not available |
| · VOC content: | 0.000 % |
| · Solids content: | 0.0 g/l / 0.00 lb/gal |
| · Evaporation rate: | 15–40 % |
| | <1 (ButAc=1) |

10 Stability and reactivity

· Reactivity

No further relevant information available.

· Chemical stability

Chemically stable at normal temperatures and pressures.

· Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

· Possibility of hazardous reactions

No dangerous reactions known.

· Conditions to avoid

Avoid direct sunlight, high temperatures, open flames, sparks and incompatible substances.

· Incompatible materials:

Amines
Strong bases
Alcohol
Water

· Hazardous decomposition products:

No dangerous decomposition products known.

Hazardous combustion products: see section 5.

11 Toxicological information

· Information on toxicological effects

· Acute toxicity:

· LD/LC50 values that are relevant for classification:

| ATE (Acute Toxicity Estimate) | | |
|-------------------------------|----------|--------------|
| Inhalative | LC50/4 h | 1.4–2.5 mg/L |

| 101-68-8 4,4'-methylenediphenyl diisocyanate | | |
|----------------------------------------------|------|---------------------|
| Oral | LD50 | 2,200 mg/kg (mouse) |

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| | | |
|-----------------------------------------------------------------------|----------|----------------|
| Inhalative | LC50/4 h | 1.5 mg/L (ATE) |
| 9016-87-9 diphenylmethanediisocyanate, isomeres and homologues | | |
| Inhalative | LC50/4 h | 1.5 mg/L (ATE) |

· **Primary irritant effect:**

- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Irritating effect.

· **Sensitization:**

- Sensitization possible through inhalation.
- Sensitization possible through skin contact.

· **Summary of effects and symptoms by route of exposure**

· **Eyes:**

- redness, serious irritation
- pain

· **Skin:**

- rash, allergic contact dermatitis
- redness, irritation
- dry skin

· **Inhalation:**

- irritation of the respiratory tract
- wheezing, shortness of breath, difficulty breathing
- mist or vapours may cause breathlessness, chest discomfort, and reduced pulmonary function
- headache
- nausea

· **Swallowed:**

- Low toxicity:
- abdominal pain

· **Delayed and immediate effects as well as chronic effects from short and long-term exposure**

Prolonged or repeated exposure may cause skin allergies.

· **Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:

Harmful
Irritant

· **Carcinogenic categories**

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

All components have the value 3.

· **NTP (National Toxicology Program)**

None of the ingredients is listed.

12 Ecological information

· **Toxicity**

- **Aquatic toxicity:** No further relevant information available.

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- **Persistence and degradability** No further relevant information available.
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Results of PBT and vPvB assessment**
 - **PBT:** Not applicable.
 - **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

13 Disposal considerations

· Waste treatment methods

- **Recommendation:** This material and its container must be disposed of as hazardous waste.

· Uncleaned packagings:

· Recommendation:

Containers may still present a chemical hazard/ danger when empty.

Dispose of contents in accordance with all local, regional, national, and international regulations.

Where possible retain label warnings and SDS and observe all notices pertaining to the product.

14 Transport information

| | |
|----------------------------------------------------------------------------------|-----------------|
| · UN-Number | |
| · DOT/TDG, IMDG, IATA | not regulated |
| · UN proper shipping name | |
| · DOT/TDG, IMDG, IATA | not regulated |
| · Transport hazard class(es) | |
| · DOT/TDG, ADN, IMDG, IATA | |
| · Class | not regulated |
| · Packing group | |
| · DOT/TDG, IMDG, IATA | Not applicable |
| · Environmental hazards: | Not applicable. |
| · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | Not applicable. |
| · Special precautions for user | Not applicable. |

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| | |
|--------------------------|---------------|
| · UN "Model Regulation": | not regulated |
|--------------------------|---------------|

*15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- OSHA Hazard Communication Standard (29 CFR Part 1900)
The safety data sheet and label comply with HCS 2024.
- Hazardous Products Act (R.S.C., 1985, c. H-3)
The safety data sheet and label comply with the Hazardous Product Act and WHMIS 2023.

· Sara

| |
|-------------------------------------------------|
| · Section 355 (extremely hazardous substances): |
|-------------------------------------------------|

None of the ingredients is listed.

| |
|---------------------------------------------------|
| · Section 313 (Specific toxic chemical listings): |
|---------------------------------------------------|

All ingredients are listed.

| |
|----------------------------------------|
| · TSCA (Toxic Substances Control Act): |
|----------------------------------------|

All components have the value ACTIVE.

| |
|----------------------------|
| · Hazardous Air Pollutants |
|----------------------------|

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

· Proposition 65

| |
|------------------------------------|
| · Chemicals known to cause cancer: |
|------------------------------------|

None of the ingredients is listed.

| |
|---------------------------------------------------------------|
| · Chemicals known to cause reproductive toxicity for females: |
|---------------------------------------------------------------|

None of the ingredients is listed.

| |
|-------------------------------------------------------------|
| · Chemicals known to cause reproductive toxicity for males: |
|-------------------------------------------------------------|

None of the ingredients is listed.

| |
|----------------------------------------------------|
| · Chemicals known to cause developmental toxicity: |
|----------------------------------------------------|

None of the ingredients is listed.

· Carcinogenic categories

| |
|-------------------------------|
| · TLV (Threshold Limit Value) |
|-------------------------------|

None of the ingredients is listed.

| |
|--------------------------------------------------------------------|
| · NIOSH-Ca (National Institute for Occupational Safety and Health) |
|--------------------------------------------------------------------|

None of the ingredients is listed.

· Canadian substance listings:

| |
|-------------------------------------------|
| · Canadian Domestic Substances List (DSL) |
|-------------------------------------------|

All ingredients are listed.

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· Canadian Non-Domestic Substances List (NDSL)

None of the ingredients is listed.

· Canadian Ingredient Disclosure list (limit 0.1%)

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

· Canadian Ingredient Disclosure list (limit 1%)

None of the ingredients is listed.

· HMIS-ratings (scale 0 - 4)

Health = * 2

Fire = 1

Reactivity = 1

· Europe

· RoHS (Restriction of Hazardous Substances Directive)

This product does not contain any lead, cadmium, mercury, hexavalent chromium, PBB's, PBDE's, DEHP, BBP, DBP, or DIBP and complies with European RoHS regulations.

· WEEE (Waste Electrical and Electronic Equipment Directive)

This product is not a piece of electrical or electronics equipment, and is therefore not governed by this regulation.

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.

· Department issuing SDS: Regulatory department

· Contact: sds@mgchemicals.com

· Version number of previous version: 4.00

· Date of preparation 05/26/2025

· Abbreviations and acronyms:

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

· * Data compared to the previous version altered.

CA