



The Chemical Company

Safety Data Sheet

ELASTOSPRAY® 8000A ISOCYANATE

Revision date : 2009/10/01

Version: 1.0

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(30232235/SDS_GEN_CA/EN)

1. Product and Company Identification

Company

BASF CANADA
100 Milverton Drive
Mississauga, ON L5R 4H1

24 Hour Emergency Response Information

CANUTEC (reverse charges): (613) 996-6666
BASF HOTLINE (800) 454-COPE (2673)

Chemical family: aromatic isocyanates

Synonyms: POLYMETHYLENE POLYPHENYLISOCYANATE

2. Hazards Identification

Emergency overview

Irritating to eyes, respiratory system and skin.
May cause sensitization by inhalation.

State of matter: liquid

State of matter: liquid
Colour: dark amber
Odour: faint odour

Potential health effects

Acute toxicity:

May cause sensitization by inhalation.
Of moderate toxicity after short-term inhalation. Virtually nontoxic after a single ingestion. Virtually nontoxic after a single skin contact.

Irritation / corrosion:

Irritating to eyes, respiratory system and skin.
Eye contact causes irritation. Skin contact causes irritation.

Sensitization:

Sensitization after skin contact possible. The substance may cause sensitization of the respiratory tract.

Medical conditions aggravated by overexposure:

The isocyanate component is a respiratory sensitizer. It may cause allergic reaction leading to asthma-like spasms of the bronchial tubes and difficulty in breathing. Persons with asthmatic conditions, chronic bronchitis, other chronic respiratory diseases, recurrent eczema or pulmonary sensitization should be excluded from working with isocyanates. Once a person is diagnosed as having pulmonary sensitization (allergic asthma) to isocyanates, further exposure is not recommended. An animal study indicated that MDI may induce respiratory hypersensitivity following dermal exposure.

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Signs and symptoms of overexposure:
Symptoms can appear later.

Potential environmental effects

Aquatic toxicity:
There is a high probability that the product is not acutely harmful to aquatic organisms.

3. Composition / Information on Ingredients

<u>CAS Number</u>	<u>Content (W/W)</u>	<u>Hazardous ingredients</u>
101-68-8	>= 30.0 - <= 60.0 %	Diphenylmethane-4,4'-diisocyanate (MDI)
26447-40-5	>= 5.0 - <= 10.0 %	Methylenediphenyl diisocyanate
9016-87-9	>= 30.0 - <= 60.0 %	P-MDI

4. First-Aid Measures

General advice:
Remove contaminated clothing.

If inhaled:
Remove the affected individual into fresh air and keep the person calm. Assist in breathing if necessary. Immediate medical attention required.

If on skin:
Wash affected areas thoroughly with soap and water. If irritation develops, seek medical attention.

If in eyes:
In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water. Immediate medical attention required.

If swallowed:
Rinse mouth and then drink plenty of water. Do not induce vomiting. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions. Immediate medical attention required.

Note to physician

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote, administer corticosteroid dose aerosol to prevent pulmonary edema.

5. Fire-Fighting Measures

Flash point: 220 °C (open cup)
Autoignition: No data available.
Self-ignition temperature: not self-igniting

Suitable extinguishing media:
water, dry extinguishing media, carbon dioxide, foam

Hazards during fire-fighting:
nitrous gases, fumes/smoke, isocyanate, vapour

Protective equipment for fire-fighting:
Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

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Further information:

Keep containers cool by spraying with water if exposed to fire. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

6. Accidental release measures

Personal precautions:

Clear area. Ensure adequate ventilation. Wear suitable personal protective clothing and equipment.

Environmental precautions:

Do not discharge into drains/surface waters/groundwater.

Cleanup:

Dike spillage.

For small amounts: Pick up with suitable absorbent material. Shovel into open container. Do not make container pressure tight. Move container to a well-ventilated area (outside). Spill area can be decontaminated with the following recommended decontamination solution: Mixture of 90 % water, 8 % concentrated ammonia, 2 % detergent. Add at a 10 to 1 ratio. Allow to stand for at least 48 hours to allow escape of evolved carbon dioxide.

For large amounts: If temporary control of isocyanate vapor is required, a blanket of protein foam or other suitable foam (available from most fire departments) may be placed over the spill. Transfer as much liquid as possible via pump or vacuum device into closed but not sealed containers for disposal.

For residues: The following measures should be taken for final cleanup: Wash down spill area with decontamination solution. Allow solution to stand for at least 10 minutes.

7. Handling and Storage

Handling

General advice:

Mix thoroughly before use. If bulging of drum occurs, transfer to well ventilated area, puncture to relieve pressure, open vent and let stand for 48 hours before resealing.

Protection against fire and explosion:

No explosion proofing necessary.

Storage

General advice:

Formation of CO₂ and build up of pressure possible. Keep container tightly closed and in a well-ventilated place. Outage of containers should be filled with dry inert gas at atmospheric pressure to avoid reaction with moisture.

Storage incompatibility:

General advice: Segregate from bases.

Storage stability:

Protect against moisture.

8. Exposure Controls and Personal Protection

Advice on system design:

Provide local exhaust ventilation to maintain recommended P.E.L.

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Personal protective equipment

Respiratory protection:

Wear the following respiratory protection if exposure limits may be exceeded: Wear a NIOSH-certified full facepiece pressure demand self-contained breathing apparatus (SCBA) or a full facepiece pressure demand supplied-air respirator (SAR) with escape provisions.

Hand protection:

Chemical resistant protective gloves, Suitable materials, Rubber gloves, Plastic gloves

Eye protection:

Tightly fitting safety goggles (chemical goggles). Wear face shield if splashing hazard exists.

General safety and hygiene measures:

Wear protective clothing as necessary to prevent contact. No eating, drinking, smoking or tobacco use at the place of work. Take off immediately all contaminated clothing. Hands and/or face should be washed before breaks and at the end of the shift. At the end of the shift the skin should be cleaned and skin-care agents applied.

9. Physical and Chemical Properties

Form:	liquid	
Odour:	faint odour, aromatic	
Odour threshold:	No data available.	
Colour:	dark amber	
pH value:		not applicable
Freezing point:	3 °C	(1 ATM)
Boiling point:	200 °C	(5 mmHg)
Vapour pressure:	0.00016 mmHg	(20 °C)
Density:	1.22 g/cm ³	(20 °C)
Relative density:	1.22	(25 °C)
Bulk density:	10.17 lb/USg	(25 °C)
Viscosity, dynamic:	200 mPa.s	(20 °C)
Solubility in water:		Reacts with water.
Molar mass:	360 g/mol	

10. Stability and Reactivity

Conditions to avoid:

Avoid moisture.

Substances to avoid:

acids, alcohols, amines, water, Alkalines

Hazardous reactions:

On contact with water, gaseous decomposition products are formed, which cause build-up of pressure in tightly closed containers. Risk of bursting. Reacts with substances which contain active hydrogen.

Decomposition products:

Hazardous decomposition products: carbon monoxide, hydrogen cyanide, nitrogen oxides, aromatic isocyanates, gases/vapours

Thermal decomposition:

> 230 °C

Corrosion to metals:

No corrosive effect on metal.

Oxidizing properties:

not fire-propagating

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11. Toxicological information

Acute toxicity

Information on: MDI

Assessment of acute toxicity:

Of moderate toxicity after short-term inhalation. Virtually nontoxic after a single ingestion. Virtually nontoxic after a single skin contact.

Oral:

Type of value: LD50

Species: rat

Value: > 10,000 mg/kg

Practically nontoxic.

Inhalation:

Type of value: LC50

Species: rat

Value: > 2.240 mg/l

Exposition time: 1 h

Moderately toxic.

Irritation / corrosion

Information on: MDI

Assessment of irritating effects:

Irritating to eyes, respiratory system and skin.

Sensitization

Information on: MDI

Assessment of sensitization:

The substance may cause sensitization of the respiratory tract. Sensitization after skin contact possible. Studies in animals suggest that dermal exposure may lead to pulmonary sensitization. However, the relevance of this result for humans is unclear.

Repeated dose toxicity

Information on: MDI

Carcinogenicity

Information on: MDI

Indication of possible carcinogenic effect in animal tests. However, the relevance of this result for humans is unclear.

Development:

Information on: MDI

The substance did not cause malformations in animal studies; however, toxicity to development was observed at high doses that were toxic to the parental animals.

12. Ecological Information

Aquatic toxicity

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Information on: MDI

Assessment of aquatic toxicity:

There is a high probability that the product is not acutely harmful to aquatic organisms. The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations. The product may hydrolyse. The test result maybe partially due to degradation products.

Fish

Acute:

static

Brachydanio rerio/LC50 (24 h): > 500 mg/l

Practically nontoxic.

Information on: Diphenylmethane-4,4'-diisocyanate (MDI)

Acute:

OECD Guideline 203 static

Brachydanio rerio/LC0 (96 h): > 1,000 mg/l

Aquatic invertebrates

Acute:

Daphnia magna/EC50 (24 h): > 500 mg/l

Practically nontoxic.

Information on: Diphenylmethane-4,4'-diisocyanate (MDI)

Acute:

OECD Guideline 202, part 1 static

Daphnia magna/EC50 (24 h): > 1,000 mg/l

13. Disposal considerations

Waste disposal of substance:

Incinerate or dispose of in a licensed facility. Do not discharge substance/product into sewer system.

Container disposal:

Contaminated packaging should be emptied as far as possible; then it can be passed on for recycling after being thoroughly cleaned.

14. Transport Information

Land transport

TDG

Not classified as a dangerous good under transport regulations

Sea transport

IMDG

Not classified as a dangerous good under transport regulations

Air transport

IATA/ICAO

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Not classified as a dangerous good under transport regulations

15. Regulatory Information

Federal Regulations

Registration status:
Chemical DSL, CA released / listed

WHMIS classification: D2A: Materials Causing Other Toxic Effects - Very toxic material



D2B: Materials Causing Other Toxic Effects - Toxic material



THIS PRODUCT HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CPR AND THE MSDS CONTAINS ALL THE INFORMATION REQUIRED BY THE CPR.

16. Other Information

Recommended use: polyurethane component

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Local Contact Information

BASF Canada Product Safety
289-360-1300

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