

SECTION 1: Identification

1.1. Identification

Trade name : A-24-120 (Stabilizer)

1.2. Recommended use and restrictions on use

Use of the substance/mixture : Production of polyurethanes
Restrictions on use : For industrial/occupational use only

1.3. Supplier

Supplier

NCFI Polyurethanes
1515 Carter St Mount Airy, NC 27030
USA
T (800) 346-8229 - F (336) 789-9586
www.NCFI.com

1.4. Emergency telephone number

Emergency number : (Chemical Spills, Leaks, Fire, Exposure or Accident only)
CHEMTREC 1-800-424-9300 (in the US)
1-703-527-3887 (Outside the US)

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Acute toxicity (inhalation:dust,mist) Category 4	H332	Harmful if inhaled
Skin corrosion/irritation Category 2	H315	Causes skin irritation
Eye irritation Category 2A	H319	Causes serious eye irritation
Respiratory sensitization, Category 1	H334	May cause an allergy or asthma symptoms or breathing difficulties if inhaled
Skin sensitization, Category 1	H317	May cause an allergic skin reaction
Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation	H335	May cause respiratory irritation
Specific target organ toxicity (repeated exposure) Category 2	H373	May cause damage to organs (lung/respiratory system) through prolonged or repeated exposure (Inhalation)

Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements

GHS US labeling

Hazard pictograms (GHS US) :



Signal word (GHS US) : Danger
Hazard statements (GHS US) :
H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H319 - Causes serious eye irritation
H332 - Harmful if inhaled
H334 - May cause an allergy or asthma symptoms or breathing difficulties if inhaled

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Precautionary statements (GHS US)	H335 - May cause respiratory irritation H373 - May cause damage to organs (lung/respiratory system) through prolonged or repeated exposure (Inhalation)
	: P260 - Do not breathe mist. P264 - Wash hands, forearms and face 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 eye protection, protective clothing, protective gloves. P284 - [In case of inadequate ventilation] wear respiratory protection. P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing. P312 - Call a POISON CENTER, a doctor if you feel unwell. P302+P352 - If on skin: Wash with plenty of soap and water. P333+P313 - If skin irritation or rash occurs: Get medical advice/attention. P362+P364 - Take off contaminated clothing and wash it before reuse. P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 - If eye irritation persists: Get medical advice/attention. P314 - Get medical advice/attention if you feel unwell. P403+P233 - Store in a well-ventilated place. Keep container tightly closed. P405 - Store locked up. P501 - Dispose of contents/container to an approved waste disposal plant.

2.3. Other hazards which do not result in classification

Other hazards which do not result in classification : None known.

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%
4,4'-methylenediphenyl diisocyanate, diphenylmethane-4,4'-diisocyanate	CAS-No.: 101-68-8	15 - 40
Isocyanic acid polymethylenepolyphenylene ester ; Polymethylene polyphenylene isocyanate	CAS-No.: 9016-87-9	10 – 30
o-(p-Isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate	CAS-No.: 5873-54-1	10 – 30
MDI Prepolymer	CAS-No.: Proprietary	10 – 30
1,3-Diazetidone-2,4-dione, 1,3-bis[4-[(4-isocyanatophenyl)methyl]phenyl]-	CAS-No.: 17589-24-1	5 – 10
propylene carbonate	CAS-No.: 108-32-7	5 – 10
methylenediphenyl diisocyanate	CAS-No.: 26447-40-5	1 – 5
2,2'-Methylenediphenyl diisocyanate; diphenylmethane-2,2'-diisocyanate	CAS-No.: 2536-05-2	< 1

Full text of hazard classes and H-statements : see section 16

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SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures general	: First aider: Pay attention to self-protection!.
First-aid measures after inhalation	: Remove the victim into fresh air. If experiencing respiratory symptoms: Call a poison center or a doctor. Call a POISON CENTER or doctor/physician if you feel unwell.
First-aid measures after skin contact	: Wash skin with mild soap and water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.
First-aid measures after eye contact	: Immediately flush eyes thoroughly with water for at least 15 minutes. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Do NOT induce vomiting unless directed to do so by medical personnel. Call a poison center or a doctor if you feel unwell.

4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects	: May cause an allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. Causes eye irritation. Causes skin irritation. Symptoms may be delayed.
Inhalation	: Harmful if inhaled. Inhalation of mists or vapors at elevated temperatures may cause respiratory irritation. Cough. Shortness of breath. Pulmonary edema.
Skin	: Causes skin irritation. May cause an allergic skin reaction.
Eyes	: Causes eye irritation.
Ingestion	: May cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Chronic symptoms	: Possible inflammation of the respiratory tract. Prolonged or repeated exposure by inhalation may cause lung damage.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media	: Dry chemical, CO ₂ , or water spray or regular foam.
Unsuitable extinguishing media	: Do not use a water jet since it may cause the fire to spread.

5.2. Specific hazards arising from the chemical

Fire hazard	: Not flammable.
Hazardous decomposition products in case of fire	: Fire will produce dense black smoke. Toxic and irritating gases are released. Carbon oxides (CO, CO ₂). Hydrogen cyanide. Nitrogen oxides. Isocyanates.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions	: On heating, there is a risk of bursting due to internal pressure build-up. Cool down the containers exposed to heat with a water spray.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Evacuate area. Prevent unauthorized access. Avoid contact with eyes, skin and clothing. Ventilate spillage area. Caution : this product can cause the floor to be slippery.
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6.1.1. For non-emergency personnel

No additional information available

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6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Prevent entry to sewers and public waters. Prevent soil and water pollution.

6.3. Methods and material for containment and cleaning up

For containment : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Methods for cleaning up : Take up liquid spill into inert absorbent material, e.g.: sand, earth, vermiculite. Place in a suitable container for disposal in accordance with the waste regulations (see Section 13). Cover spill with absorbent and neutralize with decontaminant. Transfer waste into open-top drums and keep drum lid loose for about 48hrs to allow escape of carbon dioxide. Clean spill area additionally with decontaminant. Allow solution to stand for at least 10 minutes. LARGE SPILLS: Dike spillage. A blanket of protein foam may be placed over the spill. Pump or vacuum material into containers.

Other information : Neutralizing agent (90% water, 8% ammonia, 2% liquid detergent).

6.4. Reference to other sections

For disposal of contaminated materials refer to section 13 : "Disposal considerations". Refer to protective measures listed in Sections 7 and 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Keep container tightly closed. Do not eat, drink or smoke when using this product. Avoid contact with eyes, skin and clothing. Do not breathe vapor/aerosol. Protect from moisture.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in dry, cool, well-ventilated area. Keep container tightly closed. MDI reacts with water producing CO₂ gas, a hazardous build-up of pressure could result if contaminated containers are re-sealed. Closed containers may develop pressure and rupture on prolonged exposure to heat or if contaminated with water.

Incompatible materials : Amines. Copper alloys. Strong acids. Strong bases. alcohols. Keep away from any possible contact with water, because of violent reaction and possible flash fire.

Storage temperature : 15 – 27 °C (60-80°F)

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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No additional information available

Isocyanic acid polymethylenepolyphenylene ester ; Polymethylene polyphenylene isocyanate (9016-87-9)

No additional information available

4,4'-methylenediphenyl diisocyanate, diphenylmethane-4,4'-diisocyanate (101-68-8)

USA - ACGIH - Occupational Exposure Limits

Local name	Methylene bisphenyl isocyanate (MDI)
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4,4'-methylenediphenyl diisocyanate, diphenylmethane-4,4'-diisocyanate (101-68-8)	
ACGIH OEL TWA [ppm]	0.005 ppm
Remark (ACGIH)	TLV® Basis: Resp sens
Regulatory reference	ACGIH 2022
USA - OSHA - Occupational Exposure Limits	
Local name	Methylene bisphenyl isocyanate (MDI)
OSHA PEL (Ceiling)	0.2 mg/m³
OSHA PEL C [ppm]	0.02 ppm
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
o-(p-Isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate (5873-54-1)	
No additional information available	
2,2'-Methylenediphenyl diisocyanate; diphenylmethane-2,2'-diisocyanate (2536-05-2)	
No additional information available	
1,3-Diazetidine-2,4-dione, 1,3-bis[4-[(4-isocyanatophenyl)methyl]phenyl]- (17589-24-1)	
No additional information available	
propylene carbonate (108-32-7)	
No additional information available	
methylenediphenyl diisocyanate (26447-40-5)	
No additional information available	
MDI Prepolymer (Proprietary)	
No additional information available	

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station. Use with adequate general or local exhaust ventilation to maintain exposure levels below the occupational exposure limits.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Provide readily accessible eye wash stations and safety showers.

Hand protection:
Chemically resistant protective gloves. Consult supplier for specific recommendations.
Eye protection:
Chemical goggles. If there is a risk of liquid being splashed : Goggles + face shield
Skin and body protection:
Wear suitable protective clothing
Respiratory protection:
In operations where exposure limits are exceeded or exposure levels are excessive, an approved respirator should be used. Respirator selection and use should be based on contaminant type, form and concentration. Follow applicable regulations and good Industrial Hygiene practice.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Viscous.
Color	: Brown
Odor	: Slight musty
Odor threshold	: No data available
pH	: No data available
pH solution	: ≈ 7
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: $> 93.3^{\circ}\text{C}$ (200F)
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Not flammable.
Vapor pressure	: No data available
Relative vapor density at 20°C	: No data available
Relative density	: 1.1
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: None.
Oxidizing properties	: None.

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known under normal conditions of use.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

MDI reacts with water producing CO₂ gas, a hazardous build-up of pressure could result if contaminated containers are re-sealed. Closed containers may develop pressure and rupture on prolonged exposure to heat or if contaminated with water.

. Polymerization can occur. Contact with certain rubbers and plastics can cause brittleness of the substance/product with subsequent loss in strength. An exothermic reaction may occur.

10.4. Conditions to avoid

Moisture.

10.5. Incompatible materials

Incompatible with water, humid air. alcohols. Strong bases. Amines. Acids. Substances/products that react with isocyanates.

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10.6. Hazardous decomposition products

Carbon dioxide. Carbon monoxide. Nitrogen oxides. Hydrogen cyanide. Isocyanates.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Harmful if inhaled.

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ATE US (dust, mist)	1.974 mg/l/4h
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Isocyanic acid polymethylenepolyphenylene ester ; Polymethylene polyphenylene isocyanate (9016-87-9)

LD50 oral rat	49000 mg/kg Source: Corporate Solution From Thomson Micromedex
LD50 dermal rabbit	> 9500 mg/kg Source: Corporate Solution From Thomson Micromedex
ATE US (oral)	49000 mg/kg body weight
ATE US (dust, mist)	1.5 mg/l/4h

4,4'-methylenediphenyl diisocyanate, diphenylmethane-4,4'-diisocyanate (101-68-8)

LD50 oral rat	> 2000 mg/kg body weight Animal: rat, Guideline: other:
LD50 dermal rabbit	> 9400 mg/kg body weight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
ATE US (dust, mist)	1.5 mg/l/4h

o-(p-Isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate (5873-54-1)

LD50 oral rat	> 2000 mg/kg body weight Animal: rat, Guideline: other:
LD50 dermal rabbit	> 9400 mg/kg body weight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
ATE US (dust, mist)	1.5 mg/l/4h

2,2'-Methylenediphenyl diisocyanate; diphenylmethane-2,2'-diisocyanate (2536-05-2)

LD50 oral rat	> 5000 mg/kg body weight Animal: rat, Animal sex: female, Guideline: OECD Guideline 425 (Acute Oral Toxicity: Up-and-Down Procedure), Remarks on results: other:
LD50 dermal rabbit	> 9400 mg/kg body weight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
ATE US (dust, mist)	1.5 mg/l/4h

1,3-Diazetidione-2,4-dione, 1,3-bis[4-[(4-isocyanatophenyl)methyl]phenyl]- (17589-24-1)

ATE US (dust, mist)	1.5 mg/l/4h
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propylene carbonate (108-32-7)

LD50 oral rat	> 5000 mg/kg body weight OECD 401
LD50 dermal rabbit	> 2000 mg/kg Source: ECHA

methylenediphenyl diisocyanate (26447-40-5)

LD50 oral rat	> 2000 mg/kg Source: NITE
LD50 dermal rabbit	> 10000 mg/kg Source: OECD SIDS

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methylenediphenyl diisocyanate (26447-40-5)	
ATE US (dust, mist)	1.5 mg/l/4h
MDI Prepolymer (Proprietary)	
ATE US (dust, mist)	1.5 mg/l/4h
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitization	: May cause an allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: This product does not contain any component that is considered a carcinogen by IARC, ACGIH, OSHA or NTP.
Isocyanic acid polymethylenepolyphenylene ester ; Polymethylene polyphenylene isocyanate (9016-87-9)	
IARC group	3 - Not classifiable
4,4'-methylenediphenyl diisocyanate, diphenylmethane-4,4'-diisocyanate (101-68-8)	
IARC group	3 - Not classifiable
Reproductive toxicity	: Not classified
STOT-single exposure	: May cause respiratory irritation.
Isocyanic acid polymethylenepolyphenylene ester ; Polymethylene polyphenylene isocyanate (9016-87-9)	
STOT-single exposure	May cause respiratory irritation.
4,4'-methylenediphenyl diisocyanate, diphenylmethane-4,4'-diisocyanate (101-68-8)	
STOT-single exposure	May cause respiratory irritation.
o-(p-Isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate (5873-54-1)	
STOT-single exposure	May cause respiratory irritation.
2,2'-Methylenediphenyl diisocyanate; diphenylmethane-2,2'-diisocyanate (2536-05-2)	
STOT-single exposure	May cause respiratory irritation.
1,3-Diazetidine-2,4-dione, 1,3-bis[4-[(4-isocyanatophenyl)methyl]phenyl]- (17589-24-1)	
STOT-single exposure	May cause respiratory irritation.
methylenediphenyl diisocyanate (26447-40-5)	
STOT-single exposure	May cause respiratory irritation.
MDI Prepolymer (Proprietary)	
STOT-single exposure	May cause respiratory irritation.
STOT-repeated exposure	: May cause damage to organs (lung/respiratory system) through prolonged or repeated exposure (Inhalation).
Isocyanic acid polymethylenepolyphenylene ester ; Polymethylene polyphenylene isocyanate (9016-87-9)	
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
4,4'-methylenediphenyl diisocyanate, diphenylmethane-4,4'-diisocyanate (101-68-8)	
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
o-(p-Isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate (5873-54-1)	
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.

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2,2'-Methylenediphenyl diisocyanate; diphenylmethane-2,2'-diisocyanate (2536-05-2)	
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
1,3-Diazetidine-2,4-dione, 1,3-bis[4-[(4-isocyanatophenyl)methyl]phenyl]- (17589-24-1)	
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
propylene carbonate (108-32-7)	
NOAEL (oral,rat,90 days)	> 5000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
methylenediphenyl diisocyanate (26447-40-5)	
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
MDI Prepolymer (Proprietary)	
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard	: Not classified
Viscosity, kinematic	: No data available
Symptoms/effects	: May cause an allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. Causes eye irritation. Causes skin irritation. Symptoms may be delayed.
Inhalation	: Harmful if inhaled. Inhalation of mists or vapors at elevated temperatures may cause respiratory irritation. Cough. Shortness of breath. Pulmonary edema.
Skin	: Causes skin irritation. May cause an allergic skin reaction.
Eyes	: Causes eye irritation.
Ingestion	: May cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Chronic symptoms	: Possible inflammation of the respiratory tract. Prolonged or repeated exposure by inhalation may cause lung damage.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
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4,4'-methylenediphenyl diisocyanate, diphenylmethane-4,4'-diisocyanate (101-68-8)	
LC50 - Fish [1]	> 1000 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
NOEC (chronic)	≥ 10 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
o-(p-Isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate (5873-54-1)	
LC50 - Fish [1]	> 1000 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
NOEC (chronic)	≥ 10 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
2,2'-Methylenediphenyl diisocyanate; diphenylmethane-2,2'-diisocyanate (2536-05-2)	
LC50 - Fish [1]	> 1000 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
NOEC (chronic)	≥ 10 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
propylene carbonate (108-32-7)	
LC50 - Fish [1]	> 1000 mg/l Cyprinus carpio
EC50 - Crustacea [1]	> 1000 mg/l Daphnia magna
EC50 72h - Algae [1]	> 929 mg/l Pseudokirchneriella subcapitata

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12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

Isocyanic acid polymethylenepolyphenylene ester ; Polymethylene polyphenylene isocyanate (9016-87-9)

Partition coefficient n-octanol/water (Log Pow)	10.46 Source: Quantitative Structure Activity Relation
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4,4'-methylenediphenyl diisocyanate, diphenylmethane-4,4'-diisocyanate (101-68-8)

Partition coefficient n-octanol/water (Log Pow)	4.51 Source: ECHA
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o-(p-Isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate (5873-54-1)

Partition coefficient n-octanol/water (Log Pow)	4.51 Source: ECHA
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2,2'-Methylenediphenyl diisocyanate; diphenylmethane-2,2'-diisocyanate (2536-05-2)

Partition coefficient n-octanol/water (Log Pow)	5.22 Source: Ecological Structure Activity RelationshipsECOSAR, ECHA
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propylene carbonate (108-32-7)

Partition coefficient n-octanol/water (Log Pow)	-0.41 Source: National Library of Medicine
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methylenediphenyl diisocyanate (26447-40-5)

Partition coefficient n-octanol/water (Log Pow)	3.212 Source: Molbase
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12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods	: Dispose in a safe manner in accordance with local/national regulations. Do not discharge into drains or the environment.
Product/Packaging disposal recommendations	: Empty containers should be taken for recycling, recovery or waste in accordance with local regulation.

SECTION 14: Transport information

In accordance with DOT / IMDG / IATA

DOT	IMDG	IATA
14.1. UN number		
Not regulated for transport		
14.2. Proper Shipping Name		
Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)		
Not applicable	Not applicable	Not applicable

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DOT	IMDG	IATA
14.4. Packing group		
Not applicable	Not applicable	Not applicable
14.5. Environmental hazards		
Not applicable	Not applicable	Not applicable
No supplementary information available		

14.6. Special precautions for user

DOT

No data available

IMDG

No data available

IATA

No data available

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

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SARA Section 311/312 Hazard Classes	Refer to Section 2 for OSHA Hazard Classification.
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All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory, except for:

methylenediphenyl diisocyanate	CAS-No. 26447-40-5	1 – 5%
MDI Prepolymer	CAS-No. Proprietary	10 – 30%

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

Isocyanic acid polymethylenepolyphenylene ester ; Polymethylene polyphenylene isocyanate	CAS-No. 9016-87-9	10 – 30%
4,4'-methylenediphenyl diisocyanate, diphenylmethane-4,4'-diisocyanate	CAS-No. 101-68-8	15 - 40%

4,4'-methylenediphenyl diisocyanate, diphenylmethane-4,4'-diisocyanate (101-68-8)

Listed on EPA Hazardous Air Pollutant (HAPS)

CERCLA RQ	5000 lb
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15.2. International regulations

CANADA

Isocyanic acid polymethylenepolyphenylene ester ; Polymethylene polyphenylene isocyanate (9016-87-9)

Listed on the Canadian DSL (Domestic Substances List)

4,4'-methylenediphenyl diisocyanate, diphenylmethane-4,4'-diisocyanate (101-68-8)

Listed on the Canadian DSL (Domestic Substances List)

o-(p-Isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate (5873-54-1)

Listed on the Canadian DSL (Domestic Substances List)

2,2'-Methylenediphenyl diisocyanate; diphenylmethane-2,2'-diisocyanate (2536-05-2)

Listed on the Canadian DSL (Domestic Substances List)

1,3-Diazetidine-2,4-dione, 1,3-bis[4-[(4-isocyanatophenyl)methyl]phenyl]- (17589-24-1)

Listed on the Canadian DSL (Domestic Substances List)

propylene carbonate (108-32-7)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

Isocyanic acid polymethylenepolyphenylene ester ; Polymethylene polyphenylene isocyanate (9016-87-9)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

4,4'-methylenediphenyl diisocyanate, diphenylmethane-4,4'-diisocyanate (101-68-8)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

15.3. US State regulations

Component	State or local regulations
Isocyanic acid polymethylenepolyphenylene ester ; Polymethylene polyphenylene isocyanate(9016-87-9)	U.S. - Delaware - Pollutant Discharge Requirements - Reportable Quantities; U.S. - New Jersey - Right to Know Hazardous Substance List
4,4'-methylenediphenyl diisocyanate, diphenylmethane-4,4'-diisocyanate(101-68-8)	U.S. - Delaware - Pollutant Discharge Requirements - Reportable Quantities; U.S. - New Jersey - Right to Know Hazardous Substance List

SECTION 16: Other information

According to 29CFR 1910.1200 OSHA Hazard Communication Standard

Revision date : 11/09/2022

A-24-120 (Stabilizer)

Safety Data Sheet

According to 29CFR 1910.1200 OSHA Hazard Communication Standard

Full text of H-phrases	
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H332	Harmful if inhaled
H334	May cause an allergy or asthma symptoms or breathing difficulties if inhaled
H335	May cause respiratory irritation
H373	May cause damage to organs through prolonged or repeated exposure

NFPA health hazard

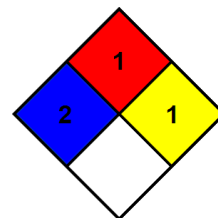
: 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.

NFPA fire hazard

: 1 - Materials that must be preheated before ignition can occur.

NFPA reactivity

: 1 - Materials that in themselves are normally stable but can become unstable at elevated temperatures and pressures.



Safety Data Sheet (SDS), USA

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