

SECTION 1: Identification

1.1. Identification

Product form : Mixtures
 Trade name : Base Seal (Component "A" Isocyanate)

1.2. Recommended use and restrictions on use

Use of the substance/mixture : A component for the production of spray insulation foam

1.3. Supplier

ICynene
 6747 Campobello Rd.
 Mississauga, ONtario, L5N 2L7
 Tel: +905-363-4040 (800)758-7325

1.4. Emergency telephone number

Emergency number : CARECHEM (866) 928-0789

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS-US classification

Acute toxicity (inhalation) Category 4	H332	Harmful if inhaled
Skin corrosion/irritation Category 2	H315	Causes skin irritation
Serious eye damage/eye irritation Category 2	H319	Causes serious eye irritation
Respiratory sensitization Category 1	H334	May cause 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	H335	May cause respiratory irritation

Full text of H statements: see section 16

2.2. GHS Label elements, including precautionary statements

GHS-US labeling

Hazard pictograms (GHS-US) :



GHS07

GHS08

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 allergy or asthma symptoms or breathing difficulties if inhaled
 H335 - May cause respiratory irritation

Precautionary statements (GHS-US) : P261 - Avoid breathing vapors, spray, 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, face shield
 P284 - [In case of inadequate ventilation] wear respiratory protection
 P302+P352 - If on skin: Wash with plenty of water
 P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing
 P304+P341 - If inhaled: If breathing is difficult, 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 doctor, a POISON CENTER if you feel unwell
 P332+P313 - If skin irritation occurs: Get medical advice/attention
 P333+P313 - If skin irritation or rash occurs: Get medical advice/attention
 P337+P313 - If eye irritation persists: Get medical advice/attention
 P342+P311 - If experiencing respiratory symptoms: Call a doctor, a POISON CENTER

Base Seal (Component "A", Isocyanate)

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

P362+P364 - Take off contaminated clothing and wash it before reuse
P363 - Wash contaminated clothing before reuse
P403+P233 - Store in a well-ventilated place. Keep container tightly closed
P405 - Store locked up
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

2.3. Other hazards which do not result in classification

Other hazards not contributing to the classification : Inhalation may cause irritation, cough, and shortness of breath. Prolonged exposure to small concentrations may result in pulmonary edema.

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	%	GHS-US classification
Poly(diphenylmethane-2,4'-diisocyanate)	(CAS No) 9016-87-9	< 55	Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Resp. Sens. 1, H334 STOT SE 3, H335
Diphenylmethane-4,4'-diisocyanate	(CAS No) 101-68-8	38	Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 STOT SE 3, H335
Diphenylmethane-2,4'-diisocyanate	(CAS No) 26447-40-5	< 10	Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 STOT SE 3, H335
Benzene, 1-isocyanato-2-[(4-isocyanatophenyl)methyl]-	(CAS No) 5873-54-1	< 5	Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 STOT SE 3, H335

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

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures general : Call a physician immediately. In all cases of doubt, or when symptoms persist, seek medical attention.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. If breathing is difficult, give oxygen. Call a physician immediately.

First-aid measures after skin contact : Take off contaminated clothing. Wash hands with water and soap. If skin irritation or rash occurs: Get medical advice/attention.

First-aid measures after eye contact : Rinse immediately and thoroughly, pulling the eyelids well away from the eye (15 minutes minimum). Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion : Never give anything by mouth to an unconscious person. Rinse mouth. Do not induce vomiting. Seek medical attention immediately.

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

Symptoms/injuries after inhalation : May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Exposure may produce cough, mucous secretions, and shortness of breath, chest tightness or other symptoms indicative of an allergic /sensitization reaction.

Symptoms/injuries after skin contact : Irritation. May cause an allergic skin reaction.

Symptoms/injuries after eye contact : Causes serious eye irritation. Causes severe inflammation of the conjunctiva and may cause severe damage of the cornea.

Symptoms/injuries after ingestion : May cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Base Seal (Component "A", Isocyanate)

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Chronic symptoms : As a result of previous repeated overexposures or a single large dose, certain individuals will develop isocyanates sensitization (chemical asthma) which will cause them to react to a later exposure to isocyanate at levels well below the PEL/TLV.

4.3. Immediate medical attention and special treatment, if necessary

Symptoms may be delayed. Specific antidotes or neutralizers to isocyanates do not exist. Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : carbon dioxide (CO₂), water, dry chemical powder. Foam.
Unsuitable extinguishing media : None known.

5.2. Specific hazards arising from the chemical

Fire hazard : Nitrous gases. Do not breathe fumes. Isocyanates. Vapors.
Explosion hazard : No direct explosion hazard.
Reactivity : The product is stable at normal handling and storage conditions. Water. Reacts with: alcohols. Acids. Alkali metals. Amines. An exothermic reaction may occur. Risk of violent reaction. Risk of polymerization. Contact with certain rubbers and plastics can cause brittleness of the substance/product with subsequent loss in strength. Not corrosive to metals.

5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Container device with compressed air (DIN EN 137). Boots. Complete protective clothing. Helmet. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
Other information : Prevent entry to sewers and public waters.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Ensure adequate ventilation.

6.1.1. For non-emergency personnel

Protective equipment : Wear suitable protective clothing. For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures : Do not breathe fume, vapors. Only qualified personnel equipped with suitable protective equipment may intervene.

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

Avoid release to the environment. Do not discharge into drains or the environment. Relevant water authorities should be notified of any large spillage to water course or drain.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material. Large spills: Use foam on spills to minimize vapors. Take up large spills with pump or vacuum. Use appropriate container to avoid environmental contamination. Keep container tightly closed. Small spillages: Clean up any spills as soon as possible, using an absorbent material to collect it. Sweep or shovel spills into appropriate container for disposal. Keep container tightly closed and in a well-ventilated place. To clean the floor and all objects contaminated by this material, use plenty of water. 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 residues: Wash down spill area with decontamination solution. Allow solution to stand for at least 10 minutes. Notify authorities if product enters sewers or public waters.
Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For disposal of residues refer to section 13: "Disposal considerations".

Base Seal (Component "A", Isocyanate)

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Use only in well-ventilated areas. If bulging of drum occurs, transfer to well ventilated area, puncture to relieve pressure, open vent and let stand for 48 hours before resealing. No direct explosion hazard. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment. Do not breathe fume, vapors. Use only outdoors or in a well-ventilated area. Avoid contact with skin and eyes.
- Hygiene measures : Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Possible pressure build-up. Store in well ventilated area. Keep container tightly closed. Keep away from: Water, humidity. Alcohol. Amines. Must be handled or transferred under dry inert gas. Protect from moisture. Store locked up. Keep container tightly closed. Keep cool.
- Storage temperature : 15 - 26 °C

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Diphenylmethane-4,4'-diisocyanate (101-68-8)		
ACGIH	ACGIH TWA (ppm)	0.01 ppm
ACGIH	Remark (ACGIH)	Resp sens
OSHA	OSHA PEL (Ceiling) (mg/m ³)	0.2 mg/m ³
OSHA	OSHA PEL (Ceiling) (ppm)	0.02 ppm
IDLH	US IDLH (mg/m ³)	75 mg/m ³
NIOSH	NIOSH REL (TWA) (mg/m ³)	0.05 mg/m ³
NIOSH	NIOSH REL (TWA) (ppm)	0.005 ppm
NIOSH	NIOSH REL (ceiling) (mg/m ³)	0.2 mg/m ³
NIOSH	NIOSH REL (ceiling) (ppm)	0.02 ppm
Diphenylmethane-2,4'-diisocyanate (26447-40-5)		
OSHA	OSHA PEL (Ceiling) (mg/m ³)	0.2 mg/m ³
OSHA	OSHA PEL (Ceiling) (ppm)	0.02 ppm
Poly(diphenylmethane-2,4'-diisocyanate) (9016-87-9)		
Not applicable		
Benzene, 1-isocyanato-2-[(4-isocyanatophenyl)methyl]- (5873-54-1)		
Not applicable		

8.2. Appropriate engineering controls

- Appropriate engineering controls : Provide adequate ventilation. Provide local exhaust or general room ventilation. Ensure good ventilation of the work station.
- Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Insufficient ventilation: wear respiratory protection. Protective goggles. Gloves. Protective clothing.

Hand protection:

Chemical resistant protective gloves (EN 374) suitable with prolonged, direct contact. Chemical resistant gloves (nitrile-rubber, PVC, neoprene). neoprene. Butyl caoutchouc (butyl rubber). VITON gloves

Eye protection:

Eye protection, including both chemical splash goggles and face shield, must be worn when possibility exists for eye contact due to spraying liquid or airborne particles. Tightly fitting safety goggles. DIN EN 166

Base Seal (Component "A", Isocyanate)

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Skin and body protection:

Full protection suit.

Respiratory protection:

Wear respiratory protection. An approved organic vapor respirator/supplied air or self-contained breathing apparatus must be used when vapor concentration exceeds applicable exposure limits



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Color	: Dark brown
Odor	: Faint aromatic
Odor threshold	: No data available
pH	: No data available
Melting point	: Not applicable
Freezing point	: 3 °C
Boiling point	: 200 °C (5 mmHg)
Flash point	: 220 °C (Closed cup)
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Not applicable.
Vapor pressure	: < 0.00001 mmHg
Relative vapor density at 20 °C	: 1.22 at 20°C.
Relative density	: No data available
Solubility	: Soluble in water.
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: > 260 °C
Viscosity, kinematic	: No data available
Viscosity, dynamic	: 200 mPa.s at 20°C
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is stable at normal handling and storage conditions. Water. Reacts with: alcohols. acids. Alkali metals. amines. An exothermic reaction may occur. Risk of violent reaction. Risk of polymerization. Contact with certain rubbers and plastics can cause brittleness of the substance/product with subsequent loss in strength. Not corrosive to metals.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Protect from moisture.

10.5. Incompatible materials

Water. alcohols. Strong bases.

Base Seal (Component "A", Isocyanate)

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

10.6. Hazardous decomposition products

Carbon monoxide. Hydrogen cyanide. Nitrogen oxides (NOx). Gases. vapors.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Likely routes of exposure : Inhalation; Ingestion; Skin and eye contact

Acute toxicity : Inhalation: dust, mist: Harmful if inhaled.

LaPolla Isocyanate	
Additional information	The acute inhalation toxicity values are irrelevant in terms of real-life exposure, because such high values are said not to be achievable except under experimental testing conditions.

Diphenylmethane-4,4'-diisocyanate (101-68-8)	
LD50 oral rat	31600 mg/kg
LC50 inhalation rat (mg/l)	369 mg/m ³ (Exposure time: 4 h)

Diphenylmethane-2,4'-diisocyanate (26447-40-5)	
LD50 oral rat	> 10000 mg/kg
LD50 dermal rabbit	> 10000 mg/kg
LC50 inhalation rat (mg/l)	490 mg/m ³ (Exposure time: 4 h)

Poly(diphenylmethane-2,4'-diisocyanate) (9016-87-9)	
LD50 oral rat	49 g/kg
LD50 dermal rabbit	> 9.4 g/kg
LC50 inhalation rat (mg/l)	490 mg/m ³ (Exposure time: 4 h)

Skin corrosion/irritation : Causes skin irritation.

Serious eye damage/irritation : Causes serious eye irritation.

Respiratory or skin sensitization : May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified
(Based on available data, the classification criteria are not met)

Carcinogenicity : Not classified

Diphenylmethane-4,4'-diisocyanate (101-68-8)	
IARC group	3 - Not classifiable

Diphenylmethane-2,4'-diisocyanate (26447-40-5)	
IARC group	3 - Not classifiable

Poly(diphenylmethane-2,4'-diisocyanate) (9016-87-9)	
IARC group	3 - Not classifiable

Reproductive toxicity : Not classified
(Based on available data, the classification criteria are not met)

Specific target organ toxicity – single exposure : May cause respiratory irritation.

Specific target organ toxicity – repeated exposure : Not classified
(Based on available data, the classification criteria are not met)

LaPolla Isocyanate	
Additional information	The acute inhalation toxicity values are irrelevant in terms of real-life exposure, because such high values are said not to be achievable except under experimental testing conditions.

Aspiration hazard : Not classified
(Based on available data, the classification criteria are not met)

Symptoms/injuries after inhalation : May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Exposure may produce cough, mucous secretions, and shortness of breath, chest tightness or other symptoms indicative of an allergic /sensitization reaction.

Symptoms/injuries after skin contact : Irritation. May cause an allergic skin reaction.

Symptoms/injuries after eye contact : Causes serious eye irritation. Causes severe inflammation of the conjunctiva and may cause severe damage of the cornea.

Symptoms/injuries after ingestion : May cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Chronic symptoms : As a result of previous repeated overexposures or a single large dose, certain individuals will develop isocyanates sensitization (chemical asthma) which will cause them to react to a later exposure to isocyanate at levels well below the PEL/TLV.

Base Seal (Component "A", Isocyanate)

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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.

Diphenylmethane-2,4'-diisocyanate (26447-40-5)

NOEC (acute)	>= 1000 mg/kg (Exposure time: 14 Days - Species: Eisenia foetida [soil dry weight])
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12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

Diphenylmethane-2,4'-diisocyanate (26447-40-5)

BCF fish 1	3 - 14
Log Pow	4.5

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Other adverse effects : Prevent entry to sewers and public waters.
Effect on global warming : No known effects from this product.
GWPmix comment : No known effects from this product.

SECTION 13: Disposal considerations

13.1. Disposal methods

Regional legislation (waste) : European waste catalogue. Waste Code(s)/waste designations(s) according to EWC/AVV: 15 01 10 (packaging containing residues of or contaminated by hazardous substances). Waste code(s)/waste designation(s) according to EWC/AVV: 15 01 02 (plastic packaging).
Waste treatment methods : Dispose of at authorized waste collection point. Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT
Not regulated

Transportation of Dangerous Goods

Not regulated

Transport by sea

Not regulated

Air transport

Not regulated

SECTION 15: Regulatory information

15.1. US Federal regulations

Diphenylmethane-4,4'-diisocyanate (101-68-8)

Listed on the United States TSCA (Toxic Substances Control Act) inventory
Subject to reporting requirements of United States SARA Section 313

CERCLA RQ	5000 lb
SARA Section 313 - Emission Reporting	1 %

Diphenylmethane-2,4'-diisocyanate (26447-40-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Base Seal (Component "A", Isocyanate)

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Poly(diphenylmethane-2,4'-diisocyanate) (9016-87-9)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313	
EPA TSCA Regulatory Flag	XU - XU - indicates a substance exempt from reporting under the Inventory Update Reporting Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(C)).
SARA Section 313 - Emission Reporting	1 %
Benzene, 1-isocyanato-2-[(4-isocyanatophenyl)methyl]- (5873-54-1)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	

15.2. International regulations

CANADA

Diphenylmethane-4,4'-diisocyanate (101-68-8)
Listed on the Canadian DSL (Domestic Substances List)
Diphenylmethane-2,4'-diisocyanate (26447-40-5)
Listed on the Canadian DSL (Domestic Substances List)
Poly(diphenylmethane-2,4'-diisocyanate) (9016-87-9)
Listed on the Canadian DSL (Domestic Substances List)
Benzene, 1-isocyanato-2-[(4-isocyanatophenyl)methyl]- (5873-54-1)
Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

Diphenylmethane-4,4'-diisocyanate (101-68-8)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Diphenylmethane-2,4'-diisocyanate (26447-40-5)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Benzene, 1-isocyanato-2-[(4-isocyanatophenyl)methyl]- (5873-54-1)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

National regulations

Diphenylmethane-4,4'-diisocyanate (101-68-8)
Listed on the AICS (Australian Inventory of Chemical Substances) Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory Listed on the Korean ECL (Existing Chemicals List) Listed on NZIoC (New Zealand Inventory of Chemicals) Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances) Japanese Pollutant Release and Transfer Register Law (PRTR Law) Listed on the Canadian IDL (Ingredient Disclosure List) Listed on INSQ (Mexican National Inventory of Chemical Substances) Listed on CICR (Turkish Inventory and Control of Chemicals)
Diphenylmethane-2,4'-diisocyanate (26447-40-5)
Listed on the AICS (Australian Inventory of Chemical Substances) Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory Listed on the Korean ECL (Existing Chemicals List) Listed on NZIoC (New Zealand Inventory of Chemicals) Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances) Listed on INSQ (Mexican National Inventory of Chemical Substances) Listed on CICR (Turkish Inventory and Control of Chemicals)
Poly(diphenylmethane-2,4'-diisocyanate) (9016-87-9)
Listed on the AICS (Australian Inventory of Chemical Substances) Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory Listed on the Korean ECL (Existing Chemicals List) Listed on NZIoC (New Zealand Inventory of Chemicals) Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances) Listed on INSQ (Mexican National Inventory of Chemical Substances)

Base Seal (Component "A", Isocyanate)

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Benzene, 1-isocyanato-2-[(4-isocyanatophenyl)methyl]- (5873-54-1)

Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on the Korean ECL (Existing Chemicals List)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on CICR (Turkish Inventory and Control of Chemicals)

15.3. US State regulations

No additional information available

SECTION 16: Other information

Revision date : 07 December 2016
Data sources : Supplier. SDS - Safety Data Sheet.
Training advice : See directive 1991/383/EC.
Other information : The attention of the user is drawn to the risks possibly incurred by using the product for any other purpose than that for which it was intended.

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 allergy or asthma symptoms or breathing difficulties if inhaled
H335	May cause respiratory irritation

Indication of changes:

Section	Changed item	Change	Comments
2.1	GHS-US classification	Modified	
4	Symptoms/injuries	Added	
8.1	Control parameters	Modified	
11	Toxicological information	Modified	

SDS US (GHS HazCom 2012)

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