

Base Seal[®]

SDS Revision Date (mm/dd/yyyy): 01/09/2018

Page 1 of 12

SAFETY DATA SHEET

SECTION 1. IDENTIFICATION

Product identifier used on the label

: **Base Seal[®]**

Product Code(s) : Component "A"

Recommended use of the chemical and restrictions on use

: Spray foam.
Use pattern: Professional Use Only
No restrictions on use known.

Chemical family : Mixture :Aromatic isocyanates

Name, address, and telephone number
of the supplier:

Icynene Inc.

6747 Campobello Rd.
Mississauga, Ontario, Canada
L5N 2L7

Supplier's Telephone # : 800-758-7325

24 Hr. Emergency Tel # : (613) 996-6666 (CANUTEC)

Name, address, and telephone number of
the manufacturer:

Refer to supplier

SECTION 2. HAZARDS IDENTIFICATION

Classification of the chemical

Dark brown liquid. Musty odour.

Most important hazards: This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).

Hazard classification :

Acute toxicity, inhalation - Category 4

Skin Irritation - Category 2

Eye damage/irritation - Category 2B

Respiratory sensitization - Category 1

Skin sensitization - Category 1

Specific target organ toxicity, single exposure - Category 3 (Respiratory irritation)

Specific target organ toxicity, repeated exposure -Category 2

Label elements

Hazard pictogram(s)



Signal Word

DANGER!

Base Seal[®]

SDS Revision Date (mm/dd/yyyy): 01/09/2018

Page 2 of 12

SAFETY DATA SHEET

Hazard statement(s)

Harmful if inhaled.
Causes skin irritation.
Causes eye irritation.
May cause allergy or asthma symptoms or breathing difficulties if inhaled.
May cause an allergic skin reaction.
May cause respiratory irritation.
May cause damage to organs through prolonged or repeated exposure.

Precautionary statement(s)

Do not breathe dust, mist or vapours.
Wash skin thoroughly after handling.
Use only outdoors or in a well-ventilated area.
Contaminated work clothing must not be allowed out of the workplace.
Wear protective gloves.
Wear respiratory protection.

IF ON SKIN: Wash with plenty of soap and water.
If skin irritation or rash occurs: Get medical advice/attention.
Take off contaminated clothing and wash it before reuse.
If inhaled: Remove person to fresh air and keep comfortable for breathing.
Call a POISON CENTER or doctor/physician if you feel unwell.
If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
Continue rinsing.
If eye irritation persists: get medical advice/attention.

Store in a well-ventilated place. Keep container tightly closed.
Store locked up.

Dispose of contents/container in accordance with local regulation.

Other hazards

Other hazards which do not result in classification:

Toxic fumes may be released during a fire. May polymerize when heated or on contact with incompatible materials. May react with water. May cause gastrointestinal irritation. Prolonged or repeated contact may cause a hardening or tanning effect.

Environmental precautions:

Avoid release to the environment. See Section 12 for more environmental information.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

<u>Chemical name</u>	<u>Common name and synonyms</u>	<u>CAS #</u>	<u>Concentration (% by weight)</u>
4,4'-Methylenediphenyl diisocyanate	4,4'-Diphenylmethane diisocyanate Bis(1,4-isocyanatophenyl)methane Methylene bisphenyl isocyanate MDI	101-68-8	30.0 - 70.0
Polymethylene polyphenyl isocyanate	Polyphenylene polymethylene polyisocyanate PMDI	9016-87-9	30.0 - 70.0

Base Seal[®]

SDS Revision Date (mm/dd/yyyy): 01/09/2018

Page 3 of 12

SAFETY DATA SHEET

SECTION 4. FIRST-AID MEASURES

Description of first aid measures

- Ingestion* : Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.
- Inhalation* : If inhaled: Remove person to fresh air and keep comfortable for breathing. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen by qualified medical personnel only. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
- Skin contact* : IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.
- Eye contact* : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: get medical advice/attention.

Most important symptoms and effects, both acute and delayed

- : Harmful if inhaled. May cause severe irritation to the nose, throat and respiratory tract. Symptoms may include coughing, choking and wheezing. May result in spasm, inflammation, and edema of the larynx and bronchi, chemical pneumonitis and pulmonary edema.
- Causes skin irritation. Symptoms may include redness, blistering, pain and swelling.
- Causes eye irritation. Symptoms will include pain, redness and tearing.
- May cause allergic respiratory reaction (sensitization) with asthmatic symptoms such as wheezing and chest tightness.
- May cause severe skin sensitization with allergic contact dermatitis symptoms such as swelling, rash and eczema.
- May cause damage to organs through prolonged or repeated exposure. Symptoms may include restriction of pulmonary function and decline in pulmonary diffusing capacity (air processing capacity), fluid accumulation, and progressive fibrosing alveolitis (thickening of the walls of the lungs).
- Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
- Prolonged or repeated contact may cause a hardening or tanning effect.

Indication of any immediate medical attention and special treatment needed

- : Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Contains isocyanates. See information supplied by the manufacturer. Symptoms may be delayed. Keep under medical supervision for at least 48 hours.
- Provide general supportive measures and treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing media

- Suitable extinguishing media*
- : Dry chemical, carbon dioxide and foam.

- Unsuitable extinguishing media*
- : Do not use water if possible.

Special hazards arising from the substance or mixture / Conditions of flammability

- : Not considered flammable. However, may burn if exposed to extreme heat and flame. May polymerize when heated or on contact with incompatible materials. May polymerize rapidly in contact with water at elevated temperature. Polymerization is a highly exothermic reaction and may generate sufficient heat to cause thermal decomposition and/or rupture containers. Vapours are heavier than air and collect in confined and low-lying areas. Contains gas under pressure; may explode if heated.

Flammability classification (OSHA 29 CFR 1910.106)

- : Not flammable.

Hazardous combustion products

- : Carbon oxides; Nitrogen oxides (NO_x); hydrogen cyanide; Other unidentified organic compounds.

Base Seal[®]

SDS Revision Date (mm/dd/yyyy): 01/09/2018

Page 4 of 12

SAFETY DATA SHEET

Special protective equipment and precautions for firefighters

Protective equipment for fire-fighters

- : Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Special fire-fighting procedures

- : Do not get water inside containers. May polymerize rapidly in contact with water at elevated temperature. Move containers from fire area if safe to do so. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses. Dike for water control.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

- : All persons dealing with the clean-up should wear the appropriate chemically protective equipment. Keep people away from and upwind of spill/leak. Restrict access to area until completion of clean-up. Refer to protective measures listed in sections 7 and 8.

Environmental precautions : Do not allow material to contaminate ground water system. If necessary, dike well ahead of the spill to prevent runoff into drains, sewers, or any natural waterway or drinking supply.

Methods and material for containment and cleaning up

- : Ventilate the area. Remove all sources of ignition. Prevent further leakage or spillage if safe to do so. For spilled liquids: absorb spill with inert, non-combustible material such as sand, then place into suitable containers. Treat area with a decontamination solution.

Decontamination solution(s):

5 - 10% sodium carbonate; 0.2 - 2% liquid detergent; water to make up 100% solution.

3 - 8% concentrated ammonia solution; 0.2 - 2% liquid detergent; water to make up 100% solution.

Allow to react for ten minutes. Collect in open containers and add more decontamination solution. Cover loosely and allow to stand for 24 to 48 hours before disposal. Refer to Section 13 for disposal of contaminated material. Contaminated absorbent material may pose the same hazards as the spilled product. Contact the proper local authorities. Refer to Section 13 for disposal of contaminated material.

Special spill response procedures

- : If a spill/release in excess of the EPA reportable quantity is made into the environment, immediately notify the national response center in the United States (phone: 1-800-424-8802).
US CERCLA Reportable quantity (RQ): 4,4'-methylenediphenyl diisocyanate (5000 lbs / 2270 kg)

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling

- : Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this preparation is being used.
Wear suitable protective equipment during handling. Wear protective gloves. Wear respiratory protection. Use only in well-ventilated areas. Do not breathe mist or vapor. Avoid contact with skin, eyes and clothing. Keep away from heat. Avoid contact with water. Keep away from incompatibles. Wash thoroughly after handling. Keep container tightly closed when not in use. Contaminated work clothing must not be allowed out of the workplace. Empty containers retain residue (liquid and/or vapour) and can be dangerous.

Base Seal[®]

SDS Revision Date (mm/dd/yyyy): 01/09/2018

Page 5 of 12

SAFETY DATA SHEET

- Conditions for safe storage** : Store in cool/well-ventilated place. Store locked up. Protect from sunlight. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. Keep containers dry and tightly closed to avoid moisture absorption and contamination. Recommended storage temperature: 16-38°C (60-100°F) Keep stock of decontaminant readily available.
- Incompatible materials** : Water; Strong acids; Strong bases; Amines; Alcohols; Amides; Phenols; Mercaptans; Surfactants; Ammonia; Metal compounds (Aluminum; Brass; Zinc; Tin; Copper); Strong oxidizing agents

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<u>Chemical Name</u>	<u>ACGIH TLV</u>		<u>OSHA PEL</u>	
	<u>TWA</u>	<u>STEL</u>	<u>PEL</u>	<u>STEL</u>
	4,4'-Methylenediphenyl diisocyanate	0.005 ppm (mixed isomers)	N/Av	0.02 ppm (0.2 mg/m ³) (Ceiling) (mixed isomers)
Polymethylene polyphenyl isocyanate	0.005 ppm (as MDI)	N/Av	0.02 ppm (0.2 mg/m ³) (Ceiling) (as MDI)	N/Av

Exposure controls

Ventilation and engineering measures

- : Use only in well-ventilated areas. Apply technical measures to comply with the occupational exposure limits. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. In case of insufficient ventilation wear suitable respiratory equipment.

Respiratory protection

- : Wear respiratory protection. Use NIOSH/MSHA approved equipment. Respirators should be selected based on the form and concentration of contaminants in air, and in accordance with OSHA (29 CFR 1910.134) or CSA Z94.4-02. Advice should be sought from respiratory protection specialists.

Skin protection

- : Wear protective gloves. Advice should be sought from glove suppliers.

Eye / face protection

- : Wear as appropriate: Tightly fitting safety goggles. A full face shield may also be necessary.

Other protective equipment

- : Ensure that eyewash stations and safety showers are close to the workstation location. Other equipment may be required depending on workplace standards.

General hygiene considerations

- : Do not breathe mist or vapor. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Remove and wash contaminated clothing before re-use. Contaminated work clothing must not be allowed out of the workplace. Handle in accordance with good industrial hygiene and safety practice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance** : Dark brown liquid.
- Odour** : Musty odor.
- Odour threshold** : N/Av
- pH** : N/Av
- Melting/Freezing point** : 15°C
- Initial boiling point and boiling range** : >300°C

Base Seal®

SDS Revision Date (mm/dd/yyyy): 01/09/2018

Page 6 of 12

SAFETY DATA SHEET

Flash point : Not available.
Flashpoint (Method) : Not available.
Evaporation rate (BuAe = 1) : Not available.
Flammability (solid, gas) : Not applicable.
Lower flammable limit (% by vol.)
: N/Av
Upper flammable limit (% by vol.)
: N/Av
Oxidizing properties : None known.
Explosive properties : Not explosive
Vapour pressure : 0.000004 mmHg
Vapour density : 8.5 (Air = 1)
Relative density / Specific gravity
: 1.23
Solubility in water : Negligible. May react with water.
Other solubility(ies) : N/Av
Partition coefficient: n-octanol/water or Coefficient of water/oil distribution
: N/Av
Auto-ignition temperature : N/Av
Decomposition temperature : N/Av
Viscosity : Not available.
Volatiles (% by weight) : Not available.
Volatile organic Compounds (VOC's)
: Not available.
Absolute pressure of container
: N/Av
Flame projection length : N/Av
Other physical/chemical comments
: No additional information.

SECTION 10. STABILITY AND REACTIVITY

Reactivity : May polymerize when heated or on contact with incompatible materials.
Chemical stability : Stable under normal conditions. Reacts slowly with water below 50°C (122°F), releasing heat, large amounts of carbon dioxide and polyureas.
Possibility of hazardous reactions
: May polymerize when heated or on contact with incompatible materials. May polymerize rapidly in contact with water at elevated temperature. Polymerization is a highly exothermic reaction and may generate sufficient heat to cause thermal decomposition and/or rupture containers.
Conditions to avoid : Direct sources of heat. Do not use in areas without adequate ventilation. Avoid contact with incompatible materials. Avoid moisture.
Incompatible materials : Water; Strong acids; Strong bases; Alcohols; Amines; Amides; Phenols; Mercaptans; Surfactants; Ammonia; Metal compounds (Aluminum; Brass; Zinc; Tin; Copper); Strong oxidizing agents
Hazardous decomposition products
: Methylene dianiline. Refer also to hazardous combustion products, Section 5.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

Routes of entry inhalation : YES

Base Seal®

SDS Revision Date (mm/dd/yyyy): 01/09/2018

Page 7 of 12

SAFETY DATA SHEET

Routes of entry skin & eye : YES

Routes of entry Ingestion : YES

Routes of exposure skin absorption
: NO

Potential Health Effects:

Signs and symptoms of short-term (acute) exposure

Sign and symptoms Inhalation

: Harmful if inhaled. May cause severe irritation to the nose, throat and respiratory tract. Symptoms may include coughing, choking and wheezing. May result in spasm, inflammation, and edema of the larynx and bronchi, chemical pneumonitis and pulmonary edema.

Sign and symptoms ingestion

: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Sign and symptoms skin

: Causes skin irritation. Symptoms may include redness, blistering, pain and swelling.

Sign and symptoms eyes

: Causes eye irritation. Symptoms will include pain, redness and tearing.

Potential Chronic Health Effects

: Prolonged or repeated contact may cause a hardening or tanning effect.

Mutagenicity

: No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic .

Carcinogenicity

: Not expected to have carcinogenic effects. No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.

Reproductive effects & Teratogenicity

: This product is not expected to cause reproductive or developmental effects.

Sensitization to material

: This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015). Classification:
Respiratory sensitization - Category 1. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause allergic respiratory reaction (sensitization) with asthmatic symptoms such as wheezing and chest tightness.
Skin sensitization - Category 1. May cause an allergic skin reaction. May cause severe skin sensitization with allergic contact dermatitis symptoms such as swelling, rash and eczema.

Specific target organ effects

: This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015). Classification:
Specific target organ toxicity, single exposure - Category 3. May cause respiratory irritation.
Specific target organ toxicity, repeated exposure - Category 2. May cause damage to organs through prolonged or repeated exposure. Symptoms may include restriction of pulmonary function and decline in pulmonary diffusing capacity (air processing capacity), fluid accumulation, and progressive fibrosing alveolitis (thickening of the walls of the lungs).

Medical conditions aggravated by overexposure

: Pre-existing skin, eye and respiratory disorders.

Synergistic materials

: No information available.

Toxicological data

: The test atmosphere generated in the animal study is not representative of workplace environments, how the substance is placed on the market, and how it can reasonably be expected to be used. Therefore the test result cannot be directly applied for the purpose of assessing hazard. Based on expert judgment and the weight of the evidence, a modified classification for acute inhalation toxicity is justified.

Base Seal®

SDS Revision Date (mm/dd/yyyy): 01/09/2018

Page 8 of 12

SAFETY DATA SHEET

<u>Chemical name</u>	<u>LC₅₀(4hr)</u> <u>inh, rat</u>	<u>LD₅₀</u>	
		<u>(Oral, rat)</u>	<u>(Rabbit, dermal)</u>
4,4'-Methylenediphenyl diisocyanate	0.49 mg/L (mist)	> 10 000 mg/kg	> 10 000 mg/kg
Polymethylene polyphenyl isocyanate	0.49 mg/L (mist)	> 10 000 mg/kg	> 10 000 mg/kg

Other important toxicological hazards

: May cause cross-sensitization with other products containing isocyanates.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity : The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters. No data is available on the product itself.

See the following tables for individual ingredient ecotoxicity data.

Ecotoxicity data:

<u>Ingredients</u>	<u>CAS No</u>	<u>Toxicity to Fish</u>		
		<u>LC50 / 96h</u>	<u>NOEC / 21 day</u>	<u>M Factor</u>
4,4'-Methylenediphenyl diisocyanate	101-68-8	> 1000 mg/L (Zebra fish)	N/Av	None.
Polymethylene polyphenyl isocyanate	9016-87-9	> 1000 mg/L (Zebra fish) (Read-across)	N/Av	None.

<u>Ingredients</u>	<u>CAS No</u>	<u>Toxicity to Daphnia</u>		
		<u>EC50 / 48h</u>	<u>NOEC / 21 day</u>	<u>M Factor</u>
4,4'-Methylenediphenyl diisocyanate	101-68-8	N/Av	≥ 10 mg/L (Daphnia magna)	None.
Polymethylene polyphenyl isocyanate	9016-87-9	N/Av	≥ 10 mg/L (Daphnia magna) (Read-across)	None.

<u>Ingredients</u>	<u>CAS No</u>	<u>Toxicity to Algae</u>		
		<u>EC50 / 96h or 72h</u>	<u>NOEC / 96h or 72h</u>	<u>M Factor</u>
4,4'-Methylenediphenyl diisocyanate	101-68-8	> 1640 mg/L/72hr (Green algae)	1640 mg/L/72hr	None.
Polymethylene polyphenyl isocyanate	9016-87-9	> 1640 mg/L/72hr (Green algae) (Read-across)	1640 mg/L/72hr (Read-across)	None.

Persistence and degradability

: Not expected to be rapidly biodegradable.

Bioaccumulation potential

: No data is available on the product itself. See the following data for ingredient information.

Base Seal[®]
SDS Revision Date (mm/dd/yyyy): 01/09/2018

Page 9 of 12

SAFETY DATA SHEET

<u>Components</u>	<u>Partition coefficient n-octanol/water (log Kow)</u>	<u>Bioconcentration factor (BCF)</u>
4,4'-Methylenediphenyl diisocyanate (CAS 101-68-8)	4.51	92
Polymethylene polyphenyl isocyanate (CAS 9016-87-9)	4.51 (Read-across)	92 (Read-across)

Mobility in soil : The product itself has not been tested.

Other Adverse Environmental effects

: No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.



SECTION 13. DISPOSAL CONSIDERATIONS

Handling for Disposal : Handle in accordance with good industrial hygiene and safety practice. Refer to protective measures listed in sections 7 and 8.

Methods of Disposal : Dispose in accordance with all applicable federal, state, provincial and local regulations.

RCRA : If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method. For disposal of unused or waste material, check with local, state and federal environmental agencies.

SECTION 14. TRANSPORT INFORMATION

Regulatory Information	UN Number	UN proper shipping name	Transport hazard class(es)	Packing Group	Label
TDG	None.	Not regulated.	not regulated	none	
TDG Additional information	This material has a very low vapour pressure and does not have any respirable mists, therefore is not regulated for transport.				
49CFR/DOT	None.	Not regulated.	not regulated	none	
49CFR/DOT Additional information	This material has a very low vapour pressure and does not have any respirable mists, therefore is not regulated for transport.				

Special precautions for user : Appropriate advice on safety must accompany the package. Keep containers dry and tightly closed to avoid moisture absorption and contamination.

Environmental hazards : This product does not meet the criteria for an environmentally hazardous mixture, according to the IMDG Code. See ECOLOGICAL INFORMATION, Section 12.

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

: Not applicable.

Base Seal®

SDS Revision Date (mm/dd/yyyy): 01/09/2018

Page 10 of 12

SAFETY DATA SHEET

SECTION 15 - REGULATORY INFORMATION

US Federal Information:

Components listed below are present on the following U.S. Federal chemical lists:

<u>Ingredients</u>	CAS #	TSCA Inventory	CERCLA Reportable Quantity(RQ) (40 CFR 117.302):	SARA TITLE III: Sec. 302, Extremely Hazardous Substance, 40 CFR 355:	SARA TITLE III: Sec. 313, 40 CFR 372, Specific Toxic Chemical	
					Toxic Chemical	de minimus Concentration
4,4'-Methylenediphenyl diisocyanate	101-68-8	Yes	5000 lb/ 2270 kg	None.	Yes	No
Polymethylene polyphenyl isocyanate	9016-87-9	Yes	None.	None.	Yes	No

SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes: Skin irritation; Acute toxicity ; Respiratory sensitiser; Eye irritation; Skin sensitization; Specific target organ toxicity, repeated exposure; Specific target organ toxicity, single exposure . Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds or the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

US State Right to Know Laws:

The following chemicals are specifically listed by individual States:

<u>Ingredients</u>	CAS #	California Proposition 65		State "Right to Know" Lists					
		Listed	Type of Toxicity	CA	MA	MN	NJ	PA	RI
4,4'-Methylenediphenyl diisocyanate	101-68-8	No	N/Ap	Yes	Yes	Yes	Yes	Yes	Yes
Polymethylene polyphenyl isocyanate	9016-87-9	No	N/Ap	No	No	No	Yes	No	No

Canadian Information:

Canadian Environmental Protection Act (CEPA) information: All ingredients listed appear on the Domestic Substances List (DSL).

Canadian National Pollutant Release Inventory (NPRI): This product contains the following substances listed on the NPRI:

- 4,4'-methylenediphenyl diisocyanate (Part 1, Group A Substance)
- polymethylene polyphenol isocyanate (Part 1, Group A Substance)

WHMIS information: Refer to Section 2 for a WHMIS Classification for this product.

International Information:

Components listed below are present on the following International Inventory list:

<u>Ingredients</u>	CAS #	European EINECs	Australia AICS	Philippines PICCS	Japan ENCS	Korea KECI/KECL	China IECSC	NewZealand IOC
4,4'-Methylenediphenyl diisocyanate	101-68-8	202-966-0	Present	Present	(4)-118	KE-12080	Present	HSR003218
Polymethylene polyphenyl isocyanate	9016-87-9	Polymer	Present	Present	(7)-872	KE-21487	Present	HSR003222

Base Seal[®]

SDS Revision Date (mm/dd/yyyy): 01/09/2018

Page 11 of 12

SAFETY DATA SHEET

SECTION 16. OTHER INFORMATION

Legend

: ACGIH: American Conference of Governmental Industrial Hygienists
AICS: Australian Inventory of Chemical Substances
ATE: Acute Toxicity Estimate
CA: California
CAS: Chemical Abstract Services
CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980
CFR: Code of Federal Regulations
CSA: Canadian Standards Association
DOT: Department of Transportation
ECHA: European Chemicals Agency
EINECS: European Inventory of Existing Commercial chemical Substances
ENCS: Existing and New Chemical Substances
EPA: Environmental Protection Agency
HSDB: Hazardous Substances Data Bank
IARC: International Agency for Research on Cancer
IBC: Intermediate Bulk Container
IECSC: Inventory of Existing Chemical Substances
IMDG: International Maritime Dangerous Goods
IOC: Inventory of Chemicals
IUCLID: International Uniform Chemical Information Database
KECI: Korean Existing Chemicals Inventory
KECL: Korean Existing Chemicals List
LC: Lethal Concentration
LD: Lethal Dose
MA: Massachusetts
MN: Minnesota
N/Ap: Not Applicable
N/Av: Not Available
NIOSH: National Institute of Occupational Safety and Health
NJ: New Jersey
NOEC: No observable effect concentration
NTP: National Toxicology Program
OECD: Organisation for Economic Co-operation and Development
OSHA: Occupational Safety and Health Administration
PA: Pennsylvania
PEL: Permissible exposure limit
PICCS: Philippine Inventory of Chemicals and Chemical Substances
RCRA: Resource Conservation and Recovery Act
RI: Rhode Island
RTECS: Registry of Toxic Effects of Chemical Substances
SARA: Superfund Amendments and Reauthorization Act
SDS: Safety Data Sheet / Material Safety Data Sheet
STEL: Short Term Exposure Limit
TDG: Canadian Transportation of Dangerous Goods Act & Regulations
TLV: Threshold Limit Values
TSCA: Toxic Substance Control Act
TWA: Time Weighted Average
WHMIS: Workplace Hazardous Materials Identification System

Base Seal®

SDS Revision Date (mm/dd/yyyy): 01/09/2018

Page 12 of 12

SAFETY DATA SHEET

References : 1. ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices for 2016
2. International Agency for Research on Cancer Monographs, searched 2017
3. Canadian Centre for Occupational Health and Safety, CCInfoWeb databases, 2017(Chempendium, HSDB and RTECs).
4. Material Safety Data Sheets from manufacturer.
5. US EPA Title III List of Lists - 2017 version.
6. California Proposition 65 List - 2017 version.
7. OECD - The Global Portal to Information on Chemical Substances - eChemPortal,2017.

Preparation Date (mm/dd/yyyy)

: 08/18/2017

Reviewed Date SDS (dd/mm/yyyy)

: 09/01/2018

Revision No.

: 2

Revision Information

: (M)SDS sections updated:2. HAZARDS IDENTIFICATION;4. FIRST AID MEASURES; 11. TOXICOLOGICAL INFORMATION.

Other special considerations for handling

: Provide adequate information, instruction and training for operators.

<p>Prepared for: Icyenne Inc. 6747 Campobello Road Mississauga ON L5N 2L7 Telephone: 800-758-7325</p>	
<p>Prepared by: ICC The Compliance Center Inc. Telephone: (888) 442-9628 (U.S.); (888) 977-4834 (Canada) http://www.thecompliancecenter.com</p>	

DISCLAIMER

This Safety Data Sheet was prepared by ICC The Compliance Center Inc. using information provided by Icyenne Inc. and CCOHS' Web Information Service. The information in the Safety Data Sheet is offered for your consideration and guidance when exposed to this product. ICC The Compliance Center Inc and Icyenne Inc. expressly disclaim all expressed or implied warranties and assume no responsibilities for the accuracy or completeness of the data contained herein. The data in this SDS does not apply to use with any other product or in any other process.

This Safety Data Sheet may not be changed, or altered in any way without the expressed knowledge and permission of ICC The Compliance Center Inc. and Icyenne Inc.

END OF DOCUMENT