

Creation Date 14-Jan-2016

Revision Date 22-Oct-2018

Version 2

1. IDENTIFICATION

Product Name PC 88 Adhesive Component 1

Synonyms Solvent based adhesive/sealant

Product Code OCPC00012

Description PC 88 Adhesive Component 1 is part one of a two part adhesive used to bond FOAMGLAS insulation to itself or to other porous or nonporous substrates

Recommended Use Adhesives For professional use

Manufacturer Address Pittsburgh Corning, LLC, a subsidiary of Owens Corning
One Owens Corning Parkway
Toledo, Ohio 43659

Company Phone Number 1-800-327-6126 or 1-724-327-6100

24 Hour Emergency Phone Number Chemtrec 1-800-424-9300 or 1-703-741-5970 CCN17393

Emergency Telephone 1-419-248-5330 (after 5 pm ET and weekends)

E-mail address productcompliance@owenscorning.com

Company Website <http://foamglas.com/>

2. HAZARDS IDENTIFICATION

OSHA Regulatory Status This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Germ cell mutagenicity	Category 1A
Carcinogenicity	Category 1A
Flammable liquids	Category 3

Label elements

Danger

Hazard statements

Harmful if inhaled
Causes skin irritation
Causes serious eye irritation
May cause genetic defects
May cause cancer
Flammable liquid and vapor



ERG Code	IF exposed or concerned: Get medical advice/attention Specific treatment (see .? on this label)
Eyes	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
Skin	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower Wash contaminated clothing before reuse
Inhalation	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
Fire	In case of fire: Use CO2, dry chemical, or foam for extinction
Precautionary Statements - Prevention	Obtain special instructions before use Do not handle until all safety precautions have been read and understood Avoid breathing dust, vapor, mist, gas Wear eye/face protection Wear protective gloves and protective clothing Wash face, hands and any exposed skin thoroughly after handling Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking Keep container tightly closed Ground and bond container and receiving equipment Use explosion-proof electrical/ventilating/lighting/equipment Use only non-sparking tools Take precautionary measures against static discharge
Precautionary Statements - Storage	Store locked up Store in a well-ventilated place. Keep cool
Precautionary Statements - Disposal	Dispose of contents/container to an approved waste disposal plant
Hazards not otherwise classified (HNOC)	Not applicable
Unknown acute toxicity	No information available

3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture Product Components

Chemical name	CAS No	Weight-%	Trade Secret
Coal, bituminous	NA	30-40	*
Petroleum distillates, hydrotreated heavy naphthenic	64742-52-5	20-30	*
Petroleum Asphalt (non-paving use)	8052-42-4	10-20	*
Solvent naphtha (petroleum), light aliphatic	64742-89-8	5-10	*

*The exact percentage (concentration) of composition has been withheld as a trade secret

Comments	The remaining components of this product are non-hazardous or are in a small enough quantity as to not meet regulatory thresholds for disclosure. These components contain no substances or impurities which would influence the classification of this product
-----------------	---

4. FIRST AID MEASURES

Description of First Aid Measures

General advice	In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove contaminated clothing and shoes.
Eye contact	<ul style="list-style-type: none"> • Rinse thoroughly with plenty of water, also under the eyelids • If eye irritation persists: Get medical advice/attention
Skin contact	<ul style="list-style-type: none"> • IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower • Get medical attention if irritation develops and persists
Inhalation	<ul style="list-style-type: none"> • IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing • Seek immediate medical attention/advice
Ingestion	<ul style="list-style-type: none"> • Rinse mouth • DO NOT induce vomiting • Call a physician or poison control center immediately
Note to physicians	<ul style="list-style-type: none"> • Treat symptomatically

5. FIRE-FIGHTING MEASURES

Flammable properties	<ul style="list-style-type: none"> • Flammable; may be ignited by heat, sparks or flames • Flammable liquid
Suitable extinguishing media	<ul style="list-style-type: none"> • Foam • Carbon dioxide (CO₂) • Dry chemical
Unsuitable extinguishing media	<ul style="list-style-type: none"> • Caution: Use of water spray when fighting fire may be inefficient
Specific hazards arising from the chemical	<ul style="list-style-type: none"> • No information available
Explosion data	
Sensitivity to Mechanical Impact	• Stable
Sensitivity to Static Discharge	• Stable
Protective equipment and precautions for firefighters	<ul style="list-style-type: none"> • As in any fire, wear self-contained breathing apparatus (positive-pressure), MSHA/NIOSH (approved or equivalent) and full protective gear

6. ACCIDENTAL RELEASE MEASURES**Personal precautions, protective equipment and emergency procedures**

Personal precautions	<ul style="list-style-type: none"> • Avoid contact with skin, eyes or clothing • Use personal protective equipment as required • Evacuate personnel to safe areas • Remove all sources of ignition • Ensure adequate ventilation, especially in confined areas
Environmental precautions	<ul style="list-style-type: none"> • Prevent further leakage or spillage if safe to do so • Prevent product from entering drains • Do not flush into surface water or sanitary sewer system • See Section 12 for ecotoxicology additional information

Methods and material for containment and cleaning up

- Methods for containment**
- Dike for later disposal; do not apply water unless directed to do so
 - Prevent further leakage or spillage if safe to do so
 - Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal
- Methods for cleaning up**
- Dam up
 - Soak up with inert absorbent material
 - Pick up and transfer to properly labeled containers

7. HANDLING AND STORAGE

- Precautions for safe handling**
- No smoking - keep away from sources of ignition
 Avoid contact with skin, eyes or clothing
 Wear appropriate personal protective equipment in case of direct contact with the product
 Wash thoroughly after handling
- Technical measures**
- Ensure adequate ventilation, especially in confined areas
 - Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity)
- Advice on safe handling**
- Ensure adequate ventilation, especially in confined areas
 - Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity)
 - Take precautionary measures against static discharges
 - Use spark-proof tools and explosion-proof equipment
 - All equipment used when handling the product must be grounded
- Conditions for safe storage, including any incompatibilities**
- Storage Conditions**
- Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity)
 - Keep in properly labeled containers
 - Keep in a dry, cool and well-ventilated place
- Incompatible materials**
- None known based on information supplied

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical name	ACGIH TLV	OSHA PEL	NIOSH REL
Coal, bituminous NA	2.0 mg/m ³ Respirable/inhalable fraction	2.0 mg/m ³	2.4 mg/m ³
Petroleum distillates, hydrotreated heavy naphthenic 64742-52-5	5.0 mg/m ³ Respirable/inhalable fraction	5.0 mg/m ³	5.0 mg/m ³
Petroleum Asphalt (non-paving use) 8052-42-4	TWA: 0.5 mg/m ³ benzene-soluble aerosol fume, inhalable particulate matter	0.5 mg/m ³ Respirable/inhalable fraction	Ceiling: 5 mg/m ³ fume 15 min
Solvent naphtha (petroleum), light aliphatic 64742-89-8	-	300 ppm	300 ppm

NIOSH REL *Immediately Dangerous to Life or Health*

- Engineering Controls**
- Showers
 - Eyewash stations
 - Ventilation systems

Individual protection measures, such as personal protective equipment

- Eye/face protection** • Wear safety glasses with side shields (or goggles)
- Skin and body protection** • Wear impervious protective gloves
• Wear long-sleeved shirt and long pants
- Respiratory protection** • When workers are facing concentrations above the exposure limit they must use appropriate certified respirators in accordance with their company's respiratory protection program, local regulations or 29 CFR 1910.134
- General Hygiene Considerations** • When using do not eat, drink or smoke
• Wash face, hands and any exposed skin thoroughly after handling
• Take off all contaminated clothing and wash it before reuse

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Liquid
Appearance	viscous
Odor	Slight hydrocarbon
Color	Black
pH value	Not Applicable
Melting point / freezing point	Unknown
Boiling point / boiling range	> 192 °C / > 246 °F
Flash point	38 °C / 101 °F
Vapor pressure @20 °C (kPa)	26 mm Hg @ 20°C
Density VALUE	3.8 (air=1)
Water solubility	No data available
Autoignition temperature	260 °C / 500 °F
Viscosity	Unknown
Specific Gravity	1.048
VOC:	64 g/L
Percent Volatile by Volume:	5.5
Liquid Density	8.7 lbs/gal

10. STABILITY AND REACTIVITY

- Reactivity** • No known reactivity
- Chemical stability** • Stable under normal conditions
- Possibility of Hazardous Reactions** • No hazardous decomposition under normal conditions of storage and use
- Conditions to avoid** • Heat, flames and sparks
- Incompatible materials** • None known based on information supplied
- Hazardous Decomposition Products** • Carbon monoxide
• Carbon dioxide (CO₂)

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information	Harmful by inhalation
----------------------------	-----------------------

Chemical name	Oral LD50	LD50/dermal/rat - NO UNITS (Wizards mg/kg)	Inhalation LC50
Petroleum Asphalt (non-paving use) 8052-42-4	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	-
Solvent naphtha (petroleum), light aliphatic 64742-89-8	-	= 3000 mg/kg (Rabbit)	-
Sodium metasilicate 6834-92-0	= 1153 mg/kg (Rat)	-	-

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

Skin corrosion/irritation Irritating to skin.
Serious eye damage/eye irritation H319 - Causes serious eye irritation.
Sensitization No information available.
Germ cell mutagenicity May cause genetic defects.
Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA
Petroleum distillates, hydrotreated heavy naphthenic 64742-52-5	A2	Group 1	Known	X

ACGIH (American Conference of Governmental Industrial Hygienists)
 A2 - Suspected Human Carcinogen
 IARC (International Agency for Research on Cancer)
 Group 1 - Carcinogenic to Humans
 NTP (National Toxicology Program)
 Known - Known Carcinogen
 Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen
 OSHA (Occupational Safety and Health Administration of the US Department of Labor)
 X - Present

Reproductive toxicity No information available.
STOT - single exposure No information available.
STOT - repeated exposure No information available.
Aspiration hazard No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity • The environmental impact of this product has not been fully investigated

Chemical name	Algae/aquatic plants	Fish	Crustacea
Petroleum distillates, hydrotreated heavy naphthenic 64742-52-5	-	5000: 96 h Oncorhynchus mykiss mg/L LC50	1000: 48 h Daphnia magna mg/L EC50
Solvent naphtha (petroleum), light aliphatic 64742-89-8	4700: 72 h Pseudokirchneriella subcapitata mg/L EC50	-	-
Sodium metasilicate 6834-92-0	-	210: 96 h Brachydanio rerio mg/L LC50 semi-static 210: 96 h Brachydanio rerio mg/L LC50	-

Persistence and degradability • No information available

Bioaccumulation • No information available

Chemical name	Partition coefficient
Petroleum Asphalt (non-paving use) 8052-42-4	>6

Other adverse effects • No information available

13. DISPOSAL CONSIDERATIONS

Disposal of wastes • Disposal should be in accordance with applicable regional, national and local laws and regulations

Contaminated packaging • Do not reuse container

US EPA Waste Number • D001

14. TRANSPORT INFORMATION

DOT Not regulated

TDG Not regulated

MEX Not regulated

ICAO (air) Not regulated

IATA

UN-Number UN1139

Hazard Class 3

Packing Group III

IMDG

UN Number UN1139

Hazard Class 3

Packing Group III

RID Not regulated

ADR Not regulated

ADN Not regulated

15. REGULATORY INFORMATION

International Inventories

Chemical name	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Petroleum distillates, hydrotreated heavy naphthenic 64742-52-5	X	X		X			X	X	X	X
Petroleum Asphalt (non-paving use) 8052-42-4	X	X		X			X	X	X	X
Solvent naphtha (petroleum), light aliphatic 64742-89-8	X	X		X			X	X	X	X

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

US State Regulations

California Proposition 65



Warning

This product can expose you to chemicals including those listed below, which is [are] known to the State of California to cause cancer, birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

Chemical name	California Proposition 65
Bitumen, extracts of steam-refined and air refined 9999-99-9	Carcinogen

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Petroleum Asphalt (non-paving use) 8052-42-4	X	X	X

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

Creation Date 14-Jan-2016
Revision Date 22-Oct-2018
Revision Note Update of document format

Disclaimer

Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use

End of Safety Data Sheet

Creation Date 12-Jul-2001

Revision Date 22-Oct-2018

Version 2

1. IDENTIFICATION

Product Name PC 88 Adhesive Component 2

Synonyms Solvent based adhesive/sealant

Product Code OCPC00013

Description PC 88 Adhesive Component 2 is part 2 of a two part adhesive used to bond FOAMGLAS insulation to itself or to other porous or nonporous substrates

Recommended Use Adhesives

Manufacturer Address Pittsburgh Corning, LLC, a subsidiary of Owens Corning
One Owens Corning Parkway
Toledo, Ohio 43659

Company Phone Number 1-800-327-6126 or 1-724-327-6100

24 Hour Emergency Phone Number Chemtrec 1-800-424-9300 or 1-703-741-5970 CCN17393

Emergency Telephone 1-419-248-5330 (after 5 pm ET and weekends)

E-mail address productcompliance@owenscorning.com

Company Website <http://Foamglas.com/>

2. HAZARDS IDENTIFICATION

OSHA Regulatory Status This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Inhalation (Dusts/Mists)	Category 3
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Respiratory sensitization	Category 1
Skin sensitization	Category 1
Specific target organ toxicity (single exposure)	Category 3
Specific target organ toxicity (repeated exposure)	Category 2

Label elements

Danger

Hazard statements

Toxic if inhaled
Causes skin irritation
Causes serious 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



ERG Code Get medical advice/attention if you feel unwell

Eyes IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

Skin If eye irritation persists: Get medical advice/attention
 IF ON SKIN: Wash with plenty of soap and water
 Take off contaminated clothing and wash before reuse

Inhalation If skin irritation or rash occurs: Get medical advice/attention
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
 Call a POISON CENTER or doctor/physician

Precautionary Statements - Prevention Avoid breathing dust, vapor, mist, gas
 Use only outdoors or in a well-ventilated area
 In case of inadequate ventilation wear respiratory protection
 Wear eye/face protection
 Wear protective gloves and protective clothing
 Wash face, hands and any exposed skin thoroughly after handling
 Contaminated work clothing must not be allowed out of the workplace

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

Precautionary Statements - Disposal Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC) Not applicable

Unknown acute toxicity 0% of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

Product Components

Chemical name	CAS No	Weight-%	Trade Secret
Methylenediphenyl diisocyanate	26447-40-5	30-40	*

• *The exact percentage (concentration) of composition has been withheld as a trade secret

Comments The remaining components of this product are non-hazardous or are in a small enough quantity as to not meet regulatory thresholds for disclosure. These components contain no substances or impurities which would influence the classification of this product

4. FIRST AID MEASURES

Description of First Aid Measures

General advice If symptoms persist, call a physician. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing.

Eye contact • Immediately flush with plenty of water. After initial flushing, remove any contact lenses and

- continue flushing for at least 15 minutes
 - Keep eye wide open while rinsing
 - If symptoms persist, call a physician
- Skin contact**
 - Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes
 - Wash contaminated clothing before reuse
 - If skin irritation or rash occurs: Get medical advice/attention
- Inhalation**
 - Remove to fresh air
 - If breathing is irregular or stopped, administer artificial respiration
 - Call a physician
- Ingestion**
 - **DO NOT** induce vomiting
 - Clean mouth with water and drink afterwards plenty of water
 - If symptoms persist, call a physician
- Note to physicians**
 - Treat symptomatically

5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media**
 - Use extinguishing measures that are appropriate to local circumstances and the surrounding environment
- Unsuitable extinguishing media**
 - Caution: Use of water spray when fighting fire may be inefficient
- Specific hazards arising from the chemical**
 - In the event of fire and/or explosion do not breathe fumes
 - May cause sensitization by inhalation and skin contact
 - Thermal decomposition can lead to release of irritating and toxic gases and vapors
- Explosion data**
 - Sensitivity to Mechanical Impact** • No
 - Sensitivity to Static Discharge** • No
- Protective equipment and precautions for firefighters**
 - As in any fire, wear self-contained breathing apparatus (positive-pressure), MSHA/NIOSH (approved or equivalent) and full protective gear

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures**
- Personal precautions**
 - Ensure adequate ventilation, especially in confined areas
 - Avoid contact with skin, eyes or clothing
 - Use personal protective equipment as required
 - Evacuate personnel to safe areas
 - Keep people away from and upwind of spill/leak
 - Environmental precautions**
 - Prevent entry into waterways, sewers, basements or confined areas
 - Do not flush into surface water or sanitary sewer system
 - Prevent further leakage or spillage if safe to do so
 - Prevent product from entering drains
 - See Section 12 for ecotoxicology additional information
- Methods and material for containment and cleaning up**
- Methods for containment**
 - Prevent further leakage or spillage if safe to do so
 - Methods for cleaning up**
 - Cover liquid spill with sand, earth or other non-combustible absorbent material
 - Use personal protective equipment as required

- Dam up
- Take up mechanically, placing in appropriate containers for disposal
- Clean contaminated surface thoroughly
- Soak up with inert absorbent material
- Pick up and transfer to properly labeled containers

7. HANDLING AND STORAGE

Technical measures • Use with local exhaust ventilation

Advice on safe handling

- Avoid contact with skin, eyes or clothing
- Wash contaminated clothing before reuse
- Do not eat, drink or smoke when using this product
- Use personal protective equipment as required
- Do not breathe dust/fume/gas/mist/vapors/spray
- Use with local exhaust ventilation

Conditions for safe storage, including any incompatibilities

Storage Conditions

- Keep container tightly closed in a dry and well-ventilated place
- Keep out of the reach of children
- Keep containers tightly closed in a cool, well-ventilated place
- Keep in properly labeled containers

Incompatible materials • None known based on information supplied

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical name	ACGIH TLV	OSHA PEL	NIOSH REL
Methylenediphenyl diisocyanate 26447-40-5	-	Ceiling: 0.02 ppm Ceiling: 0.2 mg/m ³	-

Other Information Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

Engineering Controls Minimize exposure by partial enclosure of the operation or equipment and provide extract ventilation at openings

Individual protection measures, such as personal protective equipment

Eye/face protection

- Tight sealing safety goggles
- Face protection shield

Skin and body protection • Wear impervious protective gloves

Respiratory protection • If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations

General Hygiene Considerations

- When using do not eat, drink or smoke
- Regular cleaning of equipment, work area and clothing is recommended

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state Liquid
Appearance Liquid
Odor Slightly musty

Color	Brown
Melting point / freezing point	< 0 °C / 32 °F
Boiling point / boiling range	208 °C / 406 °F
Flash point	177 °C / 351 °F
Vapor pressure @20 °C (kPa)	0.0004 mm Hg @ 20°C
Density VALUE	8.5 (air=1)
Water solubility	Insoluble in water
Autoignition temperature	
Specific Gravity	1.23 (H2)=1)
VOC:	64 g/L
Liquid Density	10.3 lbs/gal

10. STABILITY AND REACTIVITY

Reactivity	• No data available
Chemical stability	• Stable under recommended storage conditions
Possibility of Hazardous Reactions	• None under normal processing
Conditions to avoid	• Extremes of temperature and direct sunlight
Incompatible materials	• None known based on information supplied
Hazardous Decomposition Products	• None known based on information supplied

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information	Toxic by inhalation
----------------------------	---------------------

Chemical name	Oral LD50	LD50/dermal/rat - NO UNITS (Wizards mg/kg)	Inhalation LC50
Methylenediphenyl diisocyanate 26447-40-5	> 10000 mg/kg (Rat)	> 10000 mg/kg (Rabbit)	= 490 mg/m ³ (Rat) 4 h
Diphenylmethane diisocyanate (isomers and homologues) 9016-87-9	= 49 g/kg (Rat)	> 9.4 g/kg (Rabbit)	= 490 mg/m ³ (Rat) 4 h

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

Skin corrosion/irritation	Irritating to skin.
Serious eye damage/eye irritation	H319 - Causes serious eye irritation.
Sensitization	May cause sensitization by inhalation and skin contact.
Germ cell mutagenicity	No information available.
Carcinogenicity	The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA
Methylenediphenyl diisocyanate 26447-40-5	-	Group 3	-	-
Diphenylmethane	-	Group 3	-	-

diisocyanate (isomers and homologues) 9016-87-9				
--	--	--	--	--

IARC (International Agency for Research on Cancer)
Group 3 - Not classifiable as a human carcinogen

Reproductive toxicity	No information available.
STOT - single exposure	May cause respiratory irritation.
STOT - repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Chronic toxicity	Repeated contact may cause allergic reactions in very susceptible persons. Avoid repeated exposure.
Aspiration hazard	No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity	• The environmental impact of this product has not been fully investigated
Persistence and degradability	• No information available
Bioaccumulation	• No information available

Chemical name	Partition coefficient
Methylenediphenyl diisocyanate 26447-40-5	4.5

Other adverse effects	• No information available
------------------------------	----------------------------

13. DISPOSAL CONSIDERATIONS

Disposal of wastes	• Disposal should be in accordance with applicable regional, national and local laws and regulations
Contaminated packaging	• Do not reuse container

14. TRANSPORT INFORMATION

DOT	Not regulated
TDG	Not regulated
MEX	Not regulated
ICAO (air)	Not regulated
IATA	Not regulated
IMDG	Not regulated
RID	Not regulated
ADR	Not regulated
ADN	Not regulated

15. REGULATORY INFORMATION

International Inventories

Chemical name	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Methylenediphenyl diisocyanate 26447-40-5	X	X		X		X	X	X	X	X

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

US Federal Regulations**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical name	SARA 313 - Threshold Values %
Methylenediphenyl diisocyanate - 26447-40-5	1.0
Diphenylmethane diisocyanate (isomers and homologues) - 9016-87-9	1.0

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

US State Regulations**California Proposition 65**

This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Methylenediphenyl diisocyanate 26447-40-5	X	X	-
Diphenylmethane diisocyanate (isomers and homologues) 9016-87-9	X	-	-

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

Creation Date	12-Jul-2001
Revision Date	22-Oct-2018
Revision Note	Update of document format

Disclaimer

Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use

End of Safety Data Sheet