

Revision Date 22-Oct-2018

Version 1

1. IDENTIFICATION

Product Name	PC® 42 Cryogenic adhesive Part B
Synonyms	Epoxy curing agent
Product Code	OCPC00016
Description	PC® 42 Cryogenic Adhesive Part B is one component of a three part cryogenic adhesive used as a cryogenic adhesive for FOAMGLAS® insulation systems.
Recommended Use	Adhesives
UN-Number	UN1760
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)
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Acute toxicity - Oral	Category 4
Acute toxicity - Dermal	Category 4
Skin corrosion/irritation	Category 1 Sub-category B
Serious eye damage/eye irritation	Category 1
Skin sensitization	Category 1

Label elements

Danger

Hazard statements

Harmful if swallowed
Harmful in contact with skin
Causes severe skin burns and eye damage
May cause an allergic skin reaction



ERG Code	Immediately call a POISON CENTER or doctor/physician
Eyes	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
Skin	Immediately call a POISON CENTER or doctor/physician Call a POISON CENTER or doctor/physician if you feel unwell Wash contaminated clothing before reuse IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower If skin irritation or rash occurs: Get medical advice/attention
Inhalation	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
Ingestion	Immediately call a POISON CENTER or doctor/physician IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell Rinse mouth DO NOT induce vomiting
Precautionary Statements - Prevention	Wear eye/face protection Wear protective gloves and protective clothing Do not breathe dust Do not eat, drink or smoke when using this product 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 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
Tetraethylenepentamine	68953-36-6	60 - 90	*
Diethylene triamine	111-40-0	10 - 30	*

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

4. FIRST AID MEASURES

Description of First Aid Measures

General advice	Immediately call a POISON CENTER or doctor/physician. Show this safety data sheet to the doctor in attendance.
Eye contact	<ul style="list-style-type: none"> Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes Immediate medical attention is required
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 In the case of skin irritation or allergic reactions see a physician
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

- Rinse mouth
- **DO NOT** induce vomiting
- Call a POISON CENTER or doctor/physician if you feel unwell

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

- The product causes burns of eyes, skin and mucous membranes
- May cause sensitization by skin contact

Hazardous combustion products

- Ammonia
- Carbon oxides
- Nitrogen oxides (NOx)

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**

- Avoid contact with skin, eyes or clothing
- Use personal protective equipment as required
- Ensure adequate ventilation, especially in confined areas

Environmental precautions

- 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
- Contain spill with an inert absorbent material such as soil, sand or oil dry

Methods for cleaning up

- Pick up and transfer to properly labeled containers

7. HANDLING AND STORAGE**Precautions for safe handling**

Corrosive
Handle in accordance with good industrial hygiene and safety practice
Avoid contact with skin, eyes or clothing
Wear personal protective equipment/face protection
Do not breathe dust

Conditions for safe storage, including any incompatibilities**Storage Conditions**

- Keep containers tightly closed in a dry, cool and well-ventilated place
- Keep in properly labeled containers

Incompatible materials

- Incompatible with oxidizing agents

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Control parameters****Exposure Guidelines**

Chemical name	ACGIH TLV	OSHA PEL	NIOSH REL
Diethylene triamine 111-40-0	TWA: 1 ppm S*	(vacated) TWA: 1 ppm (vacated) TWA: 4 mg/m ³	TWA: 1 ppm TWA: 4 mg/m ³

Engineering Controls

- Showers
- Eyewash stations
- Ventilation systems

Individual protection measures, such as personal protective equipment**Eye/face protection**

- Goggles
- Face protection shield

Skin and body protection

- Wear protective gloves and protective clothing

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 • Handle in accordance with good industrial hygiene and safety practice

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Liquid
Odor	Ammonia
Color	amber
Melting point / freezing point	No information available
Boiling point / boiling range	
Flash point	123 °C / 253
Autoignition temperature	No information available
Specific Gravity	0.95
VOC:	0

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

- Incompatible with oxidizing agents

Hazardous Decomposition Products • None known based on information supplied

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Harmful if swallowed
Harmful by skin contact

Chemical name	Oral LD50	LD50/dermal/rat - NO UNITS (Wizards mg/kg)	Inhalation LC50
Diethylene triamine 111-40-0	= 1080 mg/kg (Rat)	= 672 mg/kg (Rabbit)	= 70 mg/L (Rat) 4 h

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

Skin corrosion/irritation

H314 - Causes severe skin burns and eye damage.

Serious eye damage/eye irritation

H318 - Causes serious eye damage.

Corrosivity

Causes burns. Risk of serious damage to eyes.

Sensitization

May cause sensitization by skin contact.

Germ cell mutagenicity

No information available.

Carcinogenicity

No information available.

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
Diethylene triamine 111-40-0	1164: 72 h Pseudokirchneriella subcapitata mg/L EC50 345.6: 96 h Pseudokirchneriella subcapitata mg/L EC50 592: 96 h Desmodesmus subspicatus mg/L EC50	248: 96 h Poecilia reticulata mg/L LC50 static 1014: 96 h Poecilia reticulata mg/L LC50 semi-static	16: 48 h Daphnia magna mg/L EC50

Persistence and degradability

• No information available

Bioaccumulation

• No information available

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

UN-Number UN1760
Proper shipping name CORROSIVE LIQUID, N.O.S.
Hazard Class 8
Packing Group II
Special Provisions B2, IB2, TII, TP2, TP27
Description UN1760, CORROSIVE LIQUIDS, N.O.S. (Diethylene triamine), 8, II
Emergency Response Guide Number 154

TDG

UN/ID no UN1760
Proper shipping name CORROSIVE LIQUID, N.O.S.
Hazard class 8
Packing Group II
Description UN1760, CORROSIVE LIQUID, N.O.S. (Diethylene triamine), 8, II

15. REGULATORY INFORMATION

International Inventories

Chemical name	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Tetraethylenepentamine 68953-36-6	X	X		X		X	X	X	X	X
Diethylene triamine 111-40-0	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 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

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 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
Bisphenol A 80-05-7	Female Reproductive

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Diethylene triamine 111-40-0	X	X	X

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

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