



MATERIAL SAFETY DATA SHEET

Denepox I-40 Part B

Rev. 10/12

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Denepox I-40 Component B Hardener Side

W.R.Grace & Co.-Conn.
62 Whittemore Avenue
Cambridge, MA 02140

Grace Canada, Inc.
294 Clements Road West
Ajax, Ontario L1S 3C6

In Case of Emergency Call:

In USA: (617) 876-1400 In Canada: (905) 683-8561

SECTION 2: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

Color: Amber
Physical State: Liquid
Odor: Ammonia
Hazards of product:

DANGER!!

CAUSES EYE AND SKIN BURNS
CAUSES RESPIRATORY TRACT IRRITATION
MAY CAUSE ALLERGIC SKIN REACTION
MAY BE HARMFUL IF ABSORBED THROUGH SKIN OR SWALLOWED
Harmful to aquatic organisms; may cause long term adverse effects in the aquatic environment

SECTION 3: HAZARDOUS INGREDIENTS

<u>Name</u>	<u>CAS NO.</u>	<u>% wt/wt</u>
Isophorone Diamine	2855-13-2	50-100
Benzyl alcohol	100-51-6	2.5-10
2,4,6-tris(dimethylaminomethyl)- phenol	90-72-2	2.5-10
Bisphenol A	80-05-7	2.5-10

SECTION 4: FIRST AID MEASURES

EYES:

GET MEDICAL ATTENTION IMMEDIATELY! Immediately flush eyes gently with water for at least 15 minutes, while holding open upper and lower lids. Chemical burns must be treated promptly by a physician.

SKIN:

Remove contaminated clothing using gloves. Flush contaminated skin with plenty of water. Continue to rinse for at least ten minutes. Chemical burns must be treated promptly by a physician.

INGESTION:

GET MEDICAL ATTENTION IMMEDIATELY! Wash out mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person.

INHALATION:

Remove person to fresh air; seek medical assistance if necessary.

SECTION 5: FIRE-FIGHTING MEASURES

FLASH POINT : >100°C

EXTINGUISHING MEDIA: Alcohol foam. Dry chemical fire extinguishers. CO2 fire extinguishers. Do not use direct water stream.

SPECIAL FIRE FIGHTING PROCEDURES: Keep people away. Isolate fire and deny unnecessary entry. Use water spray to cool fire exposed containers and fire affected zone until fire is out and danger of reignition has passed. Fight fire from protected location or safe distance. Do not use direct water stream. May spread fire. Move container from fire area if this is possible without hazard. Burning liquids may be moved by flushing with water to protect personnel and minimize property damage. Water fog, applied gently may be used as a blanket for fire extinguishment. Contain fire water run-off if possible. Firefighters should wear appropriate protective equipment and self-contained breathing apparatus with a full face-piece operated in positive pressure mode.

HAZARDOUS DECOMPOSITION PRODUCTS:

During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include and are not limited to: Nitrogen oxides. Carbon monoxide. Carbon dioxide.

SECTION 6: ACCIDENTAL RELEASE MEASURES**ACCIDENTAL RELEASE MEASURES:**

Prevent contact with eyes, skin, and clothing. Do not breathe mist or vapors. Isolate area. Keep unnecessary and unprotected personnel from entering the area. Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection. Refer to Section 7, Handling, for additional precautionary measures. Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information.

CLEAN-UP PROCEDURES:

Contain spilled material. Absorb with materials such as: Sand. Polypropylene fiber products. Polyethylene fiber products. Remove residual with soap and hot water. Collect in suitable and properly labeled containers.

SECTION 7: HANDLING AND STORAGE**HANDLING:**

Use appropriate personal protective equipment. (Section 8) Avoid prolonged or repeated contact with skin. Avoid contact with eyes. Avoid contact with skin and clothing. Wash thoroughly after handling. Do not breathe vapor or mist. Wash well before eating, drinking, or smoking. Wear appropriate respirator if ventilation is inadequate.

STORAGE:



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Store protected from sunlight in a dry, cool and well-ventilated area. Keep away from incompatible materials (section 10), and food and drink. Separate from acids.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

EYE/FACE PROTECTION: Use safety glasses with splash shields or goggles

RESPIRATORY PROTECTION : Use an approved respirator as required to prevent overexposure.

HAND PROTECTION : Use gloves chemically resistant to this material.

SKIN PROTECTION : Use protective clothing chemically resistant to this material. Selection of specific items such as face shield, boots, apron, or full body suit will depend on the task. Remove contaminated clothing immediately, wash skin area with soap and water, and launder clothing before reuse or dispose of properly.

INGESTION: Use good personal hygiene. Do not consume or store food in the work area. Wash hands before smoking or eating.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Amber

ODOR: Ammonia

ODOR THRESHOLD: Not available

PHYSICAL STATE: Liquid

EVAPORATION RATE: Not known

FLAMMABILITY: Not applicable

UPPER FLAMMABILITY LIMITS: Not known

LOWER FLAMMABILITY LIMITS: Not known

VAPOR PRESSURE: 1mmHg @ 20°C

VAPOR DENSITY: 7.6

RELATIVE DENSITY: 0.94g/cc

DECOMPOSITION TEMPERATURE: Not available

pH: Not determined

FREEZING PT: 36°F

FLASH POINT: >100°C

BOILING POINT: >200°C

SOLUBILITY (H₂O): Not soluble

PARTITION COEFFICIENT: Not available

AUTO-IGNITION TEMPERATURE: Not known

VISCOSITY: Not available

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Stable under normal ambient conditions.

CONDITIONS TO AVOID (STABILITY):

Avoid high temperatures, flames and sparks.

INCOMPATIBILITY (MATERIAL TO AVOID):

Avoid contact with oxidizing materials. Avoid contact with: Acids.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:

Decomposition products depend upon temperature, air supply and the presence of other materials. Gases are released during decomposition may include but not be limited to: nitrogen oxides, carbon monoxide, and water.

HAZARDOUS POLYMERIZATION: Will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

ACUTE TOXICITY:

Isophorone Diamine, CAS 2855-13-2	LD ₅₀ oral	1030 mg/kg (rat)
	LD ₅₀ dermal	1840 mg/kg (rabbit)
Benzyl alcohol, CAS 100-51-6	LD ₅₀ oral	1230 mg/kg (rat)
	LD ₅₀ dermal	2000 mg/kg (rabbit)
	LC ₅₀ 4h inhalative	4178 mg/l (rat)
2,4,6-tris(dimethylaminomethyl)phenol CAS 90-72-2	LD ₅₀ oral	1670 mg/kg (rat)
	LD ₅₀ dermal	1242 mg/kg (rabbit)
Bisphenol A CAS 80-05-7	LD ₅₀ oral	3250 mg/kg (rat)
	LD ₅₀ dermal	3000 mg/kg (rabbit)
	LC ₅₀ 4h inhalative	> 5 mg/l (rat)

SECTION 12: ECOLOGICAL INFORMATION

PERSISTENCE AND DEGRADABILITY

Not soluble I water. Harmful to aquatic organisms.

ECOTOXICITY

Material is expected to be slightly toxic to aquatic organisms on an acute basis (LC50/EC50 between 10 and 150 mg/L in most sensitive species tested).

SECTION 13: DISPOSAL CONSIDERATIONS

DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER. All disposal practices must be in compliance with all Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator. DENEFF CONSTRUCTION CHEMICALS HAS NO CONTROL OVER THE MANAGEMENT PRACTICES OR MANUFACTURING PROCESSES OF PARTIES HANDLING OR USING THIS MATERIAL. THE INFORMATION PRESENTED HERE PERTAINS ONLY TO THE PRODUCT AS SHIPPED IN ITS INTENDED CONDITION AS DESCRIBED IN SECTION 3.

SECTION 14: TRANSPORT INFORMATION

DOT:

UN1760

Corrosive Liquid, n.o.s. (isophorone diamine) 8, PGIII

Corrosive Label required

IATA:

UN1760

Corrosive Liquid, n.o.s. (isophorone diamine) 8, PGIII

Corrosive Label required

IMO:

UN1760



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CORROSIVE LIQUID, N.O.S. (ISOPHORONE DIAMINE) 8, III

CORROSIVE LABELS REQUIRED

Marine Pollutant: No

STOWAGE: A

Emergency Schedule: F-A, S-B

SECTION 15: REGULATORY INFORMATION

European Inventory of Existing Commercial Chemical Substances (EINECS)

To the best of our knowledge, all components are listed or exempt under EINECS.

US. Toxic Substances Control Act

All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements under 40 CFR 720.30

CEPA - Domestic Substances List (DSL)

All substances contained in this product are listed on the Canadian Domestic Substances List (DSL) or are not required to be listed.

Hazard Rating System

HMIS	Health	Fire	Physical Hazard
	3	1	1