MATERIAL SAFETY DATA SHEET

Trade Name: **AQUASET RESIN**

Chemical Family: **Epoxy Resin**
Formula: **Proprietary**

Manufacturer: **DOW CHEMICAL CANADA**
PO Box 3030,
1425 Vidal Street South
Sarnia, Ontario N7T 8C6

Supplier: **COAST FIBER-TEK**
1306 Boundary Road
Burnaby, BC V5K 4T6
Tel.# (604) 294-8116

Emergency Phone #'s:(519) 339-3711
Transportation EMG. Phone # CANUTEC (613) 996-6666
(604) 930-0650

HAZARDOUS INGREDIENTS:

Propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl]-, polymers		88%	CAS # 025085-99-8
Alkyl, glycidyl ether:	(C12-C14)	12%	CAS # 68609-97-2

Exposure Limits: LD50 skin LD50, Rabbit 20,000mg/kg,
LD50 oral rats > 5000 mg/kg

PHYSICAL DATA:

Appearance & Odour:	Clear (light yellow) liquid, medium viscosity, mild odour
Vapour Pressure:	0.06 mm @ 21 ^{o}C (based on alkyl glycidyl ether)
Vapour Density:	N/A
Solubility in Water:	Insoluble<= 1% @ 25 ^{o}C
Specific Gravity:	1.11 - 1.14
Boiling Point:	=>148 ^{o}C

FIRE & EXPLOSION DATA:

Flashpoint & Method:	176.7 - 190.6^{o}C, PMCC ASTM D-93
Flammable Limits:	N/A
Extinguishing Methods:	CO_2, dry chemical, foam(alcohol resistant foams are preferred)
Special Equipment & Procedures:	Self-contained breathing apparatus & complete protective clothing should be worn fighting chemical fires. Water fog applied gently may be used as a blanket to extinguish fire. Move container from fire area if this is possible without hazard.

REACTIVITY DATA:

Conditions Contributing to Instability:	Excessive heat. Thermally stable at typical use temperatures.
Incompatible Substances:	Bases, acids, amines & oxidizing materials
Hazardous Decomposition Products:	CO , CO_2
Hazardous Polymerization:	Will not occur by itself.

HEALTH HAZARDS DATA:

NOTE: *Health studies have shown that exposure to chemicals pose potential risks which may vary from person to person. Exposure to liquids, vapours, mists or fumes should be minimized.*

MATERIAL SAFETY DATA SHEET

PRINCIPAL HEALTH HAZARDS:

Skin Contact: May cause an allergic reaction
Eye Contact: May cause slight temporary eye irritation. Corneal injury is unlikely.
Ingestion: Small amounts may cause discomfort, large amounts may be toxic.
Inhalation: Excessive exposure may cause irritation to upper respiratory tract (nose & throat).

FIRST AID PROCEDURES:

Skin: Wash off in flowing water.
Eyes: Flush with warm water for 20 minutes, remove contacts after 1 -2 minutes, obtain medical attention.
Ingestion: **INDUCE VOMITING** if large amounts are ingested, get medical attention.
Inhalation: Remove to fresh air if effects occur, consult physician if effects persist.

PREVENTIVE MEASURES:

Skin: Always apply appropriate barrier cream to exposed skin. Wear impervious gloves (butyl rubber), coveralls and safety footwear.
Eyes: Chemical proof goggles or full face respirator if vapours cause eye irritation.
Ingestion: Wash thoroughly before consuming food stuffs.
Inhalation: Use only in well ventilated areas or use NIOSH or CAS approved respiratory protection with organic vapour cartridges.

CONTROL MEASURES & PRECAUTIONS

Keep container tightly closed. Do not consume food, drink or tobacco in work area or material storage areas. Use caution and personal cleanliness to avoid skin and eye contact. Avoid breathing vapours of heated materials. Use paper covering absorbent wipes and suitable disposable containers in work area.

SPILL, LEAK & DISPOSAL METHODS

Review fire and explosion hazards and safety precautions before proceeding with clean up. Restrict access to area. Contain spill to prevent liquid from entering sewers or waterways. Recover free liquid and use an absorbent material (i.e. sand, vermiculite) to soak up balance. Place in suitable container for disposal.

DISPOSAL METHOD

Dispose only in a facility permitted to dispose of hazardous waste by Federal, Provincial and Municipal regulations.

SHIPPING INFORMATION

Shipping Name: N/A
Hazard Class: Non-regulated
UN/PIN #: N/A
Flashpoint: N/A
WHMIS:

The information contained herein is based on data that we believe to be accurate. No warranty either expressed or implied is made. This information is offered solely for your consideration, interpretation and information.

Preparation Date: January 22, 1993
Prepared by: Nigel Poore, 1306 Boundary Road, Burnaby, BC V5K 4T6
Telephone #: (604) 294-8116
Revised Date: January 5, 2016

N/A = Not Available

MATERIAL SAFETY DATA SHEET

Trade Name: **AQUASET HARDENER**

Chemical Family: **Cycloaliphatic Amine**
Formula: **Proprietary**

Distributed by: **ST. LAWRENCE CHEMICAL INC.**
19201 Clark Graham Ave.
D'Urfé, Qc. H9X 3P5
Emergency Phone #'s:(800) 526-9374
Transportation EMG. Phone # CANUTEC (613) 996-6666
(604) 930-0650

Supplier: **COAST FIBER-TEK**
1306 Boundary Road
Burnaby, BC V5K 4T6
Tel.# (604) 294-8116

HAZARDOUS INGREDIENTS:

1. Isophoronediamine	<35%	CAS # 2855-13-2
2. Phenol:	<10%	CAS # 108-95-2
3. Benzyl Alcohol:	>35%	CAS # 100-51-6

Exposure Limits: 2. LD50 oral rat 317 mg/kg, LD50 dermal rat 669mg/kg, LD50 dermal rabbit 630 mg/kg
3. LD50 oral rat 1230 mg/kg, dermal rabbit 2000 mg/kg, LC50 inhalation rat 500 mg/m3

PHYSICAL DATA:

Appearance & Odour:	Light yellow liquid, irritating odour
Vapour Pressure:	< 10.34 mmHg @ 21 ^{o}C
Vapour Density:	N/A
Solubility in Water:	<0.1 g/l
Specific Gravity:	1.02 @ 20 ^{o}C
Boiling Point:	204 ^{o}C
PH (As Is):	Alkaline
Boiling Point:	204 ^{o}C

FIRE & EXPLOSION DATA:

Flashpoint & Method:	>110^{o}C, (PMCC)
Flammable Limits:	N/A
Extinguishing Methods:	CO_2, dry chemical, foam, dry sand, Limestone powder
Special Equipment & Procedures:	Self-contained breathing apparatus & complete protective clothing should be worn fighting chemical fires.

REACTIVITY DATA:

Conditions Contributing to Instability:	Moisture, contact with incompatible products.
Incompatible Substances:	Sodium hypoclorite, organic acids, mineral acids, reactive metals, materials reactive with hydroxyl compounds, oxidizing agents. Product slowly corrodes copper, aluminum, zinc, and galvanized surfaces. Reaction with peroxides may result in violent decomposition of peroxide possibly creating and explosion.
Hazardous Decomposition Products:	(under fire conditions) Nitric acid, ammonia, oxides of nitrogen, carbon monoxide, carbon dioxide, aldehydes, hydrocarbons
Hazardous Polymerization:	Will not occur by itself.

HEALTH HAZARDS DATA:

NOTE: *Health studies have shown that exposure to chemicals pose potential risks which may vary from person to person. Exposure to liquids, vapours, mists or fumes should be minimized.*

MATERIAL SAFETY DATA SHEET

PRINCIPAL HEALTH HAZARDS:

Skin Contact: If absorbed through the skin, may cause headache, nausea, dizziness, confusion, breathing difficulties.

Eye Contact: Causes severe eye irritation. Product vapour can cause lacrimation, conjunctivitis and corneal edema when absorbed into the tissue of the eye from the atmosphere.

Ingestion: Harmful if swallowed. Mau cause headache, nausea, vomiting, abdominal pain, dizziness, confusion and breathing difficulties.

Inhalation: May cause delayed lung injury. May cause headache, nausea, dizziness, confusion, breathing difficulties, coughing, lung irritation, upper respiratory irritation.

FIRST AID PROCEDURES:

Skin: Wash off in flowing water.

Eyes: Flush with warm water for 20 minutes, obtain medical attention.

Ingestion: **DO NOT INDUCE VOMITING**. Seek medical attention.

Inhalation: Remove to fresh air if ill effects develop. If effects persist administer oxygen, apply A/R if necessary and seek medical attention.

PREVENTIVE MEASURES:

Skin: Always apply appropriate barrier cream to exposed skin. Wear impervious gloves (butyl rubber), coveralls and safety footwear.

Eyes: Chemical proof goggles or full face respirator if vapours cause eye irritation.

Ingestion: Wash thoroughly before consuming food stuffs.

Inhalation: Use only in well ventilated areas or use NIOSH or CAS approved respiratory protection with organic vapour cartridges.

CONTROL MEASURES & PRECAUTIONS

Keep container tightly closed. Do not consume food, drink or tobacco in work area or material storage areas. Use caution and personal cleanliness to avoid skin and eye contact. Avoid breathing vapours of heated materials. Use paper covering absorbent wipes and suitable disposable containers in work area.

SPILL, LEAK & DISPOSAL METHODS

Review fire and explosion hazards and safety precautions before proceeding with clean up. Restrict access to area. Contain spill to prevent liquid from entering sewers or waterways. Recover free liquid and use an absorbent material (i.e. sand, vermiculite) to soak up balance. Place in suitable container for disposal.

DISPOSAL METHOD

Dispose only in a facility permitted to dispose of hazardous waste by Federal, Provincial and Municipal regulations.

SHIPPING INFORMATION

Shipping Name: Amines, Corrosive Liquid N.O.S. (3-aminomethyl-3,5,5-trimethylcyclohexylamine)
Hazard Class: 8
UN/PIN #: 2735 III
Flashpoint: 110^{o}C
WHMIS: DIA, D2B, E

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Preparation Date: January 31, 1993
Prepared by: Nigel Poore, 1306 Boundary Road, Burnaby, BC V5K 4T6
Telephone #: (604) 294-8116
Revised Date: January 5, 2016

N/A = Not Available