

SECTION I: PRODUCT SPECIFICATION

Product Name: **IPATHANE HYDROPHOBIC GROUT**

Product Application: **Polyurethane Injection Resin**

Produced By: IPA Systems Inc.
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IN CASE OF EMERGENCY CONTACT: CHEMTREC # (800) 424-9300

SECTION II: CHEMICAL COMPOSITION

INGREDIENT	PERCENT	CAS #	LD ₅₀ of ingredient
4,4 Diphenylmethane Dissocyanate	TS	9016-87-9	Greater than 15,800 mg/kg (oral rat)
Dibutyl Phthalate	TS	84-74 -2	Dermal,greater than 7,900 (Rabbit) Inhalation, 370-490 mg/m ³ (aerosol rat) 20-25 g/kg (oral rat)

TS – Trade Secret

None of the remaining components are considered a Hazardous Material or carcinogen (91910.1200) Hazard Communication (d) (4).

SECTION III: EMPIRICAL DATA

Physical State:	Liquid
Odor & Appearance:	Slight musty odor, blackish brown
Odor Threshold (ppm):	Not established
Boiling Point:	392°F
Freezing Point:	>32°F (MDI)
Vapor Pressure mmGH (@20°C):	10-5 mmHg
Vapor Density (Air=1):	8.5 MDI
Evaporation Rate:	N/A
PH:	N/A
Specific Gravity (H ₂ O = 1):	1.115 (+0.005)
Coeff. Water/Oil Base:	Unknown

N/A – Not applicable N/Av – Not Available N/D – Not determined N/E – Not established

SECTION IV: HAZARD WARNING DATA

Flammability:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
If yes, under what conditions?	N/A
Means of extinction:	Water fog, carbon dioxide or dry chemicals.
Flashpoint & method:	COC 266°F
Upper flammability limit:	N/A
Lower flammability limit:	N/A
Autoignition temperature:	N/A
Hazardous combustion products: aerosols	Carbon monoxide, nitrogen oxides, traces of HCN, MDI vapors or
Sensitivity to impact:	None
Sensitivity to static discharge:	None

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SECTION V: CHEMICAL REACTIVITY DATA

Stable

Unstable

If unstable, under what conditions ?

Incompatibility with other substances?

Yes: Water, amines, strong bases, alcohols.

Reactivity, and under which conditions?

Yes: Storage of open or sealed containers in moist or wet environments.

Hazardous decomposition products?

None:

SECTION VI: TOXICOLOGICAL WARNING DATA

Skin contact
absorption

Eye contact

Inhalation

Ingestion

Skin

Effects of acute exposure to product:

Skin rash and sensitization of fair skin persons.

Effects of chronic exposure to product:

Lung irritation and emphysema. Skin reaction.

Exposure limits:

0.020 PPM ceiling (MDI)

Irritancy of product:

Yes

Sensitization to product:

Yes

Carcinogenicity:

No NPT – N/A . IARC monographs: Class 2.

Teratogenicity:

None

Reproductive toxicity:

None

Mutagenicity:

None

Synergistic products:

None

OSHA regulated :

No

SECTION VII: PREVENTATIVE HANDLING MEASURES

Personal Protective Equipment:

Gloves:

Nitrile rubber gloves.

Respirator (specify):

If adequate ventilation is provided, no specific respiratory protection is necessary.
If adequate ventilation cannot be provided, use NIOSH/MSHA approved half face respirator with organic vapor cartridges.

Eye (specify):

Chemical splash guard goggles.

Footwear (specify):

Boots

Clothing (specify):

Impervious clothing.

Others (specify):

Engineering Controls:

Provide sufficient ventilation to maintain exposure below TLV.

Leak & Spill procedure:

Cover spill with absorbent material, Remove from surface and place in open container.
Add equal parts of water to spill; mix until foaming begins, allow material to cure for 48 hours in open space.

Waste Disposal:

Small Spill: Remove material and treat as instructed for leak and spill procedure. Allow sufficient time for material to completely cure. Dispose of remaining material in accordance with applicable regulations. Because cured material is inert it may be disposed of in a sanitary land fill. Check with local, State and Federal regulations.
Large Spill: Remove material and treat as instructed for leak and spill procedure or Destroy by liquid incineration. Contaminated absorbent may be deposited in a landfill in accordance with local, state and federal regulations.

Handling Procedure

Use only in well ventilated areas unless recommended respiratory protection is used. Keep body contact and splash to a minimum. Do not cut empty steel drums with a welding torch.

Storage Requirements:

Store at 50°F to 100°F

Shipping Instructions:

None, not regulated by D.O.T.

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SECTION VIII: FIRST AID PROCEDURES

Specific Measures:

EYES:	Flush with large amounts of water for 15 minutes, lifting upper and lower lids occasionally. Obtain immediate medical attention.
SKIN:	Thoroughly wash exposed area with soap and water. Remove contaminated clothing. Launder contaminated clothing before re-use.
INGESTION:	Do Not Induce Vomiting. Rinse mouth vigorously. Supply victim with 16-24 oz. of water to drink. Keep person warm, quiet and seek medical attention. Aspiration of material into the lungs due to vomiting can cause chemical pneumonitis which can be fatal.
INHALATION:	If affected, move individual to fresh air. If breathing is difficult, administer oxygen. If breathing has stopped, give artificial respiration. Keep person warm, quiet and seek immediate medical attention.

SECTION IX: MISCELLANEOUS

NFPA, NPCA-HMIS

NPCA-HMIS Rating

Health:	1
Flammability:	1
Reactivity:	0



ANSI / NSF 61
DRINKING WATER SYSTEM COMPONENTS
3N76
"HYDRO ACTIVE® CUT GROUT"

MAXIMUM SURFACE AREA TO VOLUME RATIO
4 CM² / L @ 23° C

ONLY WHEN MIXED WITH "HYDRO ACTIVE® CUT CAT" ACTIVATOR (2-10%)

SECTION X: ECOLOGICAL DATA

Ecotoxicity: Polymeric MDI. LC50 (Zebra Fish) > 1000 mg/l. EC50 (Daphnia magna) (24 hour) > 1000 mg/l. EC50 (E. Coli) > 100 mg/l.

Environmental Fate and Distribution: It is unlikely that significant environmental exposure in the air or water will arise based on consideration of the production and use of the substance.

Persistence and Degradation: Immiscible with water, but will react with water to produce inert and non-biodegradable solids.

SECTION XI: IPA MSDS PREPARATION

Prepared by : IPA Technical Department
Date: March 15, 2006
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