

PRODUCT NAME: LAVA DECK TOPCOAT (ALL BASES)
 PRODUCT CODE: TO INCLUDE LD-TC-A, LD-TC-D, LD-TC-W

~~~~ SECTION 1 ~~~~ MANUFACTURER IDENTIFICATION ~~~~

Manufacturer's Name : ALL WEATHER SURFACES-HI, INC.  
 Address : 99-890 IWAENA ST. STE. D  
           : AIEA, HI 96701  
           : INITIAL (FIRST CALL) CHEMTREC (800) 424-9300  
 INFORMATION PHONE : (808) 487-3043  
 TOLL FREE : BACKUP (800) 541-4383  
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~~~~ SECTION 2 ~~~~ HAZARDOUS INGREDIENTS/SARA III INFORMATION ~~~~

| Reportable Components | CAS Number | MM HG | @ Temp | Weight % |
|--|------------|-------|----------|----------|
| Water | 7732-18-5 | UNK | UNK | (26-30) |
| No OEL's Established | | | | |
| ~ | | | | |
| Acrylic Copolymer Emulsion | Mixture | 22.67 | 68F/20C | (16-20) |
| Contains: 0.0-0.1% Aqua Ammonia, CAS#1336-21-6,
Manufacturer's suggested guidelines: TWA: 25ppm, STEL: 35ppm. | | | | |
| ~ | | | | |
| Acrylic Polymer | Mixture | 17 | 20C/68F | (17-21) |
| Contains: <=0.2% Aqua Ammonia, CAS #1336-21-6,
Manufacturer's suggested guidelines: TWA: 25ppm, STEL: 35ppm. | | | | |
| ~ | | | | |
| Calcium carbonate | 1317-65-3 | N/A | N/A | (0-15) |
| OSHA PEL: 15mg/m3, Total Dust, 5mg/m3, Respirable Dust
ACGIH TLV:10mg/m3, total dust containing no asbestos and <1% free Silica.
If silica levels above 1.0% are present, the TLV value is 0.1mg of
Respirable silica per cubic meter for both OSHA PEL and ACGIH TLV. | | | | |
| ~ | | | | |
| Titanium dioxide | 13463-67-7 | N/A | N/A | (0-20) |
| Contains: Titanium dioxide, CAS#13463-67-7,
ACGIH TLV TWA: 10mg/m3, total dust, OSHA PEL TWA: 15mg/m3, total dust.
Aluminum hydroxide, CAS#21645-51-2, no exposure limits established. | | | | |
| ~ | | | | |
| Nepheline syenite, various grades. | 37244-96-5 | N/A | N/A | (4-10) |
| No exposure limits have been established for this material. | | | | |
| ~ | | | | |
| * Epoxy ester. | Mixture | 0 | 420C/68F | 2 |
| (with 2-butoxyethanol, cas# 111-76-2) Epoxy Ester, New Jersey trade secret registry number
No occupational exposure limits have been established
for this chemical component. Also contains 2-butoxyethanol,
(ethylene glycol monobutyl ether) CAS # 111-76-2.
ACGIH, TLV: 20ppm TWA, skin. OSHA PEL: 50ppm TWA, skin. | | | | |
| ~ | | | | |
| * Diethylene glycol monobutyl ether | 112-34-5 | 0.02 | 77F/20C | 2 |
| No exposure limits have been established.
Dow industrial hygiene suggests: 35ppm, TWA | | | | |
| ~ | | | | |
| 1,2 - Propanediol (Propylene Glycol) | 57-55-6 | 0.22 | 68F/20C | (0-1) |
| AIHA WEEL is 50ppm TOTAL; 10mg/m3 Aerosol only
There is no OSHA PEL or ACGIH TLV For Propylene Glycol
Worker Environmental Exposure Limit | | | | |
| ~ | | | | |
| * Indicates toxic chemical(s) subject to the reporting
requirements of section 313 of Title III and of 40 CFR 372. | | | | |

Indicates carcinogenic chemical.

NOTE: If tinted may contain Carbon Black CAS#1333-86-4 AND/OR Crystalline Silica CAS#14808-60-7. If tinted DARK GRAY or BLACK consider these levels to be reportable.

This MSDS may be used for other colors and container sizes of this product.

~~~~ SECTION 3 ~~~~ HAZARDS IDENTIFICATION ~~~~

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Potential Health Effects

Eyes:

May cause slight/moderate irritation to the eye

Skin:

Irritating to the skin

Ingestion:

May cause abdominal pain, nausea, vomiting, dizziness and central nervous system depression

Inhalation:

Vapor or spray mist can cause headache, nausea, vomiting and irritation of the nose, throat and lungs

~~~~ SECTION 4 ~~~~ FIRST AID MEASURES ~~~~

Eyes:

Immediately flush eyes with clean, lukewarm water for 15 minutes while lifting eyelids. Consult a physician or ophthalmologist immediately.

Skin:

Immediately wash skin with a generous amount of soap and water. Remove contaminated clothing and shoes and wash before reuse. If irritation persists consult a physician.

Ingestion:

Do not induce vomiting. Never give anything by mouth to an unconscious person. Consult a physician immediately.

Inhalation:

Remove from source of exposure and into fresh air. If symptoms persist consult a physician immediately. If not breathing, give artificial respiration and call emergency medical services immediately.

Note to Physician:

None for this material.

~~~~ SECTION 5 ~~~~ FIRE FIGHTING MEASURES ~~~~

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Flammable Properties

Flash Point: 220F/104.4C

Lower Flammable Limits: 0.85

Upper Flammable Limit: 24.6

Auto Ignition Temperature: Not available

Extinguishing Media:

Carbon dioxide, dry chemical, foam or water fog.

*Special Fire Fighting Procedures:*

Do not enter any enclosed or confined fire space without full protective equipment, including self-contained breathing apparatus (pressure-demand MSHA/NIOSH approved or equivalent) to protect against the hazardous effects of combustion products and oxygen deficiency. Use water spray to cool fire exposed structures and to cool fire exposed containers to prevent pressure build-up and possible rupture of container.

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*~~~~ SECTION 6 ~~~~ ACCIDENTAL RELEASE MEASURES ~~~~*

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*Small Spill:*

Always wear appropriate Personal Protective Equipment as you would if you were using this product. Dike and absorb with inert material such as sand and remove all liquid with the use of a vacuum system. If unable to remove as a liquid, then absorb with sand, saw dust or commercial absorbent, and scoop up and place in containers for proper disposal. Keep spills and cleaning runoff out of the municipal sewers and open bodies of water. Decontaminate all clothing and the spill area with a detergent and large amounts of water.

*Large Spill:*

Wear skin, eye & respiratory protection during clean-up. Evacuate area of all non-essential personnel. Ventilate spill area. Dike, and contain and/or absorb with inert material (sand, earth or other suitable non-combustible material) to prevent entry into storm drains, sewers and other unauthorized treatment/drainage systems and natural waterways. Scoop up and place in approved containers for proper disposal. Cover with lid. If spill occurs near air inlets or inside, turn off heating or air-conditioning equipment to prevent contaminating building.

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*~~~~ SECTION 7 ~~~~ HANDLING AND STORAGE ~~~~*

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*Handling & Storage:*

Keep from freezing. Keep container cool and dry. Use and store this product with adequate ventilation. Keep product containers tightly closed when not in use. Avoid subjecting this product to extreme temperature variations.

*Other Precautions:*

Avoid skin or eye contact. Avoid prolonged or repeated breathing of vapors and mists. If spilled on clothing, launder before reuse. Do not take internally. Use only in a well ventilated area. Keep out of the reach of children.

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*~~~~ SECTION 8 ~~~~ EXPOSURE CONTROLS/PERSONAL PROTECTION ~~~~*

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*Engineering Controls:*

In outside spray, mixing and rolling applications situate workers upwind of operation & provide airflow in a downwind direction so as to carry fumes and residual spray away from workers.

Local exhaust ventilation recommended if generating vapor, dust or mist. Turn off heating and/or air conditioning equipment to prevent contaminating building.

If exhaust ventilation is not adequate, use MSHA or NIOSH approved respirator. Refer to OSHA standard 29 CFR 1910.94 for guidelines.

*Respiratory Protection:*

NONE REQUIRED IF AREA IS ADEQUATELY VENTILATED. FOR RESPIRATORY PROTECTION WITHIN CONFINED AREAS AND FOR CONCENTRATIONS UP TO 10 TIMES THE EXPOSURE LIMIT, USE AN APPROVED AIR-PURIFYING RESPIRATOR EQUIPPED WITH AN AMMONIA/METHYLAMINE CARTRIDGE(S).

*Skin Protection:*

The use of gloves impermeable to the specific material handled is advised to prevent skin contact and possible irritation. Note that PVA degrades in water.

*Eye Protection:*

Isolate the area immediately; prevent unauthorized entry.

~~~~ SECTION 9 ~~~~ PHYSICAL AND CHEMICAL PROPERTIES ~~~~

Boiling Range: 100C/212F - 441F/227.2C

Melting Point: N/A

Specific Gravity(H₂O=1): 1.2273

Vapor Density(Air=1): Heavier than air

Vapor Pressure: NO DATA

Evaporation Rate(N-Butyl Acetate=1) : Slower than ether

Coating V.O.C.: 1.17 lb/gl Coating V.O.C.: 140 g/l

Material V.O.C.: 0.47 lb/gl Material V.O.C.: 56 g/l

Solubility in Water: Soluble

Appearance: PIGMENTED, VISCOUS.

Odor: AMMONIA ODOR

pH: 8.0

~~~~ SECTION 10 ~~~~ STABILITY & REACTIVITY DATA ~~~~

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*Stability:*

Stable

*Conditions To Avoid:*

Extremely hot or cold temperatures

*Incompatible Materials:*

Avoid contact with strong oxidizing agents, strong alkalis

*Hazardous Decomposition Products*

Thermal decomposition may yield acrylic monomer, carbon monoxide and carbon dioxide. Unidentified organic compounds in fumes and smoke may be formed during combustion.

*Hazardous Polymerization:*

Will not occur

~~~~ SECTION 11 ~~~~ TOXICOLOGICAL INFORMATION ~~~~

*Data is for individual components of preparation.

Materials having a known chronic/acute effects on eyes:

AMMONIA CAS# 1336-21-6:

Draize test, rabbit, eye: 250 ug Severe

DIETHYLENE GLYCOL MONBUTYL ETHER CAS#112-34-5

RABBIT: MODERATE

2,2,4-TRIMETHYL-1,3-PENTANEDIOL CAS#25265-77-4

EYE IRRITATION (RABBIT, UNWASHED EYES) SLIGHT TO MODERATE

EYE IRRITATION (RABBIT, WASHED EYES) SLIGHT

Materials having a known dermal toxicity.

TITANIUM DIOXIDE CAS#13463-67-7 Dermal LD50 (rabbit) >10 g/kg

DIETHYLENE GLYCOL MONBUTYL ETHER CAS#112-34-5

SKIN IRRITATION-RABBIT: SLIGHT

SKIN IRRITATION-GUINEA PIG: SLIGHT

DERMAL LD-50 (RABBIT): 2764MG/KG

EPOXY ESTER(2-BUTOXYETHANOL) CAS#111-76-2

Skin rabbit LD50: 220 mg/kg;

Materials having a known oral toxicity.

TITANIUM DIOXIDE CAS#13463-67-7 Oral LD50 (rat) >25 g/kg

AMMONIA CAS#1336-21-6 Oral, rat: LD50 = 350 mg/kg

DIETHYLENE GLYCOL MONBUTYL ETHER CAS#112-34-5

ORAL LD-50 (RAT): 7292 MG/KG.

ORAL LD-50 (MOUSE): 2406 MG/KG.

EPOXY ESTER(2-BUTOXYETHANOL) CAS#111-76-2 Oral rat LD50: 470 mg/kg

Materials having a known Inhalation hazard:

Titanium Dioxide CAS#13463-67-7 LC50 (rat)>6.82 mg/l(4 hr)

AMMONIA CAS# 1336-21-6: rat LC50: 2000 ppm/4-hr

2500-6500PPM: DANGEROUS FOR AS LITTLE AS 30 MINUTES. 5000-10,000PPM: RAPIDLY FATAL FOR SHORT EXPOSURES.

EPOXY ESTER(2-BUTOXYETHANOL) CAS#111-76-2

Inhalation rat LC50: 450ppm/4H;

2,2,4-TRIMETHYL-1,3-PENTANEDIOL CAS#25265-77-4

Inhalation LC-50: (rat)6 h: >3.55 mg/l (lowest concentration tested)

Identified Acute/ Short-term Effects:

Headache, nausea, abdominal pain and irritation of the nose, throat and lungs. Skin and eye irritation.

Identified Carcinogens/Longterm Effects:

Product ingredients are at or less than de minimis levels or are not considered to be carcinogens by the international agency for research on cancer (IARC), the national toxicology program (NTP) or by the occupational safety and health administration (OSHA).

Identified Teratogens:

INFORMATION BASED ON THE TOXICITY PROFILES FOR DIETHYLENE GLYCOL MONOBUTYL ETHER.CAS#112-34-5

DERMAL STUDY (RABBIT): NOEL FOR MATERNAL TOXICITY = 1000 MG/KG/DAY (HIGHEST DOSE TESTED); NOEL FOR DEVELOPMENTAL TOXICITY = 1000 MG/KG/DAY (HIGHEST DOSE TESTED).

ORAL STUDY (RAT): LOEL FOR MATERNAL TOXICITY = 5MG/KG; NOEL FOR MATERNAL TOXICITY = NOT ESTABLISHED; NOEL FOR DEVELOPMENTAL TOXICITY = 633 MG/KG/DAY (HIGHEST DOSE TESTED).

EPOXY ESTER(2-BUTOXYETHANOL) CAS#111-76-2

HAS SHOWN TERATOGENIC EFFECTS IN LABORATORY ANIMALS

Identified Reproductive toxins :

INFORMATION BASED ON THE TOXICITY PROFILES FOR DIETHYLENE GLYCOL MONOBUTYL ETHER. CAS#112-34-5 DERMAL STUDY (13-WEEK, RAT): NOEL FOR MATERNAL/PATERNAL TOXICITY = 2 MG/KG/DAY (HIGHEST DOSE TESTED); NOEL FOR MATERNAL/PATERNAL FERTILITY = 2 MG/KG/DAY (HIGHEST DOSE TESTED); NOEL FOR DEVELOPMENTAL TOXICITY = 2 MG/KG/DAY (HIGHEST DOSE TESTED).

ORAL STUDY (RAT): NOEL FOR MATERNAL/PATERNAL FERTILITY = 1000 MG/KG/DAY (HIGHEST DOSE TESTED); NOAEL FOR EMBRYO/FERTOTOXICITY = 1000 MG/KG/DAY.

Identified Mutagens:

Ammonia CAS#7664-41-7

Genetic mutations observed in bacterial and mammalian test systems.

~~~~ SECTION 12 ~~~~ ECOLOGICAL INFORMATION ~~~~

Ecotoxicological effects on plants and animals:

Titanium Dioxide CAS#13463-67-7 96 Hr LC50 (Fathead minnows) >1,000 mg/l

AMMONIA CAS# 1336-21-6: This material is expected to be very toxic to aquatic life. The LC50/96-hour values for fish are less than 1 mg/l. The EC50/48-hour values for daphnia are less than 1 mg/l.

DIETHYLENE GLYCOL MONOBUTYL ETHER CAS#112-34-5:

OXYGEN DEMAND COD: 2.08g OXYGEN/g

BOD-5: 0.25g OXYGEN/g.

ACUTE AQUATIC EFFECTS DATA:

24HR LC-50 (GOLDFISH): 2700MG/L

96HR LC-50 (BLUEGILL SUNFISH): 1300 MG/L.

EPOXY ESTER (2-BUTOXYETHANOL) CAS#111-76-2

The LC50/96-hour values for fish are over 100 mg/l. This material is not expected to be toxic to aquatic life

Chemical Fate :

EPOXY ESTER (2-BUTOXYETHANOL) CAS#111-76-2

When released into the soil, this material is not expected to evaporate significantly. When released into the soil, this material may leach into groundwater. When released into the soil, this material may biodegrade to a moderate extent. When released into water, this material is not expected to evaporate significantly. When released into water, this material may biodegrade to a moderate extent. This material has an estimated bioconcentration factor (BCF) of less than 100. This material is not expected to significantly bioaccumulate. When released into the air, this material is expected to be readily degraded by reaction with photochemically produced hydroxyl radicals. When released into the air, this material is expected to have a half-life of less than 1 day

~~~~ SECTION 13 ~~~~ DISPOSAL CONSIDERATIONS ~~~~

Instructions:

Dispose of unused product or contaminated product and materials used in cleaning up spills or leaks in a manner approved for this material. Consult appropriate federal, state and local

regulatory agencies to ascertain proper disposal procedures. Incineration is acceptable and the preferred method of disposal, however; nitrogen oxide emissions controls may be required to meet specifications. Chemical and biological degradation is possible. Empty containers will retain product residue and vapors and are subject to proper waste disposal, as above.

~~~~ SECTION 14 ~~~~ TRANSPORT INFORMATION ~~~~

Shipping Information:
U.S. DOT TRANSPORT INFORMATION
PROPER SHIPPING NAME: NOT REGULATED

~~~~ SECTION 15 ~~~~ REGULATORY INFORMATION ~~~~

(Not meant to be all inclusive-selected regulations represented)

US Regulations:

Status Of Substances Lists:

The Concentrations Shown In Section II Are Maximum Ceiling Levels (Weight %) to be used for calculations for regulations.

A reportable quantity is a quantity of a hazardous substance that triggers reporting requirements under the Comprehensive Environmental Response Compensation And Liability Act (CERCLA).

If a spill of a substance exceeds it's reportable quantity (RQ) in CFR 302.3, Table 40 302.4 Appendix A & 302.4 Appendix B,

the release must be reported to The National Response Center

At (800) 424-8802, The State Emergency Response Commission

(SERC), And community emergency coordinators likely to be affected.

Components present that could require reporting under the statute are:

SEE SECTION II FOR PERCENTAGES

*TOXIC: NOT REPORTABLE IN QUANTITIES LESS THAN 1%

AMMONIA CAS#7664-41-7 RQ 100 #

AQUA AMMONIA CAS#1336-21-6 RQ 1000 #

Superfund Amendments And Reauthorization Act Of 1986 (SARA) Title III Requires emergency planning based on the Threshold Quantities (TPQ'S) and release reporting based on Reportable Quantities (RQ'S) In 40 CFR 355 Appendix A&B Extremely Hazardous Substances. The emergency planning and release requirements of 40 CFR 355 apply to any facility at which there is present any amount of any extremely hazardous substance (EHS) equal to or in excess of it's Threshold Planning Quantity (TPQ).

Components present that could require reporting under the statute are:

AMMONIA CAS#7664-41-7 RQ: 100# TPQ: 500#

EPCRA 40 CFR 372 (Section 313) Requires EPA and the States to annually collect data on releases of certain toxic materials from industrial facilities, and make the data available to the public in the Toxics Release Inventory (TRI). This information must be included in all MSDS'S that are copied and distributed or compiled for this material.

Reporting Threshold: Standard: A facility must report if it manufactures (including imports) or processes 25,000 pounds or more or otherwise uses 10,000 pounds or more of a listed toxic chemical during the calendar year.

Components present that could require reporting under the statute are:

See Section II

The components of this product are listed or excluded from listing on the US Toxic Substance Control Act (TSCA) chemical substance inventory.

Mixtures shall be assumed to present the same health hazards as do the

components which comprise one percent (by weight or volume) or greater of the mixture, except that the mixture shall be assumed to present a carcinogenic hazard if it has a component in concentrations of 0.1 percent or greater. The remaining percentage of unspecified ingredients, if any, are not contained in above DeMinimis concentrations and/or are believed to be non-hazardous under the OSHA Hazard Communication Standard (29 CFR 1910.1200), and may consist of pigments, fillers, defoamers, wetting agents, resins, dryers, anti-bacterial agents, water and/or solvents in varying concentrations.

International Regulations:

Canadian WHMIS:

CLASS D - POISONOUS AND INFECTIOUS MATERIALS

Division 2 Materials Causing Other Toxic Effects

Subdivision B - Toxic Materials

Canadian Environmental Protection Act (CEPA):

All of the components of this product are exempt or listed on the DSL. See section 2 for composition/information on ingredients.

EINECS:

| | | |
|-----------------------------------|----------------|-------------------|
| AMMONIA | CAS#7664-41-7 | |
| EINECS#:231-635-3 | | |
| CALCIUM CARBONATE | CAS#1317-65-3 | EINECS#:215-665-4 |
| TITANIUM DIOXIDE | CAS#13463-67-7 | EINECS#:236-675-5 |
| AMMONIA | CAS#1336-21-6 | EINECS#:215-647-6 |
| DIETHYLENE GLYCOL MONOBUTYL ETHER | CAS#112-34-5 | EINECS#:203-961-6 |
| EPOXY ESTER (2-BUTOXYETHANOL) | CAS#111-76-2 | EINECS#:203-905-0 |
| PROPYLENE GLYCOL | CAS#57-55-6 | EINECS#:200-338-0 |
| 2,2,4-TRIMETHYL-1,3-PENTANEDIOL | CAS#25265-77-4 | EINECS#:246-771-9 |

State Regulations:

California:

California Proposition 65: The following Statement is made in order to comply with The California Safe Drinking Water and Toxic Enforcement Act of 1986

"WARNING: This product contains the chemical(s) appearing below known to the State of California to:

A: Cause Cancer

NONE KNOWN

*If tinted contains Carbon Black: CAS#1333-86-4 and may also contain trace amounts of Crystalline Silica: CAS#14808-60-7

B: Cause Birth Defects or other Reproductive Harm :

NONE KNOWN

In addition to the above named chemical(s) (if any), this product may contain trace amounts of chemicals, known to the State of California, to cause Cancer or Birth Defects and other Reproductive Harm

Delaware:

Listed on the Delaware Air Quality Management List:

| | | |
|--------------|---------------|-----------|
| Ammonia | CAS#7664-41-7 | DRQ 100# |
| Ammonia Aqua | CAS#1336-21-6 | DRQ 1000# |

Florida:

AMMONIA CAS#7664-41-7 LISTED AS TOXIC

EPOXY ESTER (2-BUTOXYETHANOL) CAS#111-76-2 LISTED AS TOXIC

2,2,4-TRIMETHYL-1,3-PENTANEDIOL CAS#25265-77-4 LISTED AS TOXIC

Massachusetts:

AMMONIA CAS#7664-41-7 CODES
2,4,5,6,*E,F6,F8,F9
CALCIUM CARBONATE CAS#1317-65-3 CODES:4
TITANIUM DIOXIDE CAS#13463-67-7 CODES:4
AMMONIA CAS#1336-21-6 CODES: F8
EPOXY ESTER(2-BUTOXYETHANOL) CAS#111-76-2 CODES:2,4,6,F8
2,2,4-TRIMETHYL-1,3-PENTANEDIOL CAS#25265-77-4 CODES:2,4,5,6,F8

Michigan:

NONE KNOWN

Minnesota:

LISTED IN THE MINNESOTA HAZARDOUS SUBSTANCES LIST:

AMMONIA CAS#7664-41-7
CODES: ANOS HAZARDS:-- CARNINOGEN? NO

CALCIUM CARBONATE CAS#1317-65-3
CODES: A HAZARDS:-- CARNINOGEN? NO

TITANIUM DIOXIDE CAS#13463-67-7
CODES: A HAZARDS:-- CARNINOGEN? NO

EPOXY ESTER(2-BUTOXYETHANOL) CAS#111-76-2
CODES: A HAZARDS:SKIN CARNINOGEN? NO

PROPYLENE GLYCOL CAS#57-55-6
CODES:I HAZARDS:-- CARNINOGEN? NO

2,2,4-TRIMETHYL-1,3-PENTANEDIOL CAS#25265-77-4
CODES:AO HAZARDS:-- CARNINOGEN? NO

New Jersey:

AMMONIA CAS#7664-41-7
NEW JERSEY EXTRAORDINARILY HAZARDOUS SUBSTANCE:
EPA THRESHOLD:10,000
NJ THRESHOLD:5200

AMMONIA CAS#1336-21-6
NEW JERSEY EXTRAORDINARILY HAZARDOUS SUBSTANCE
EPA THRESHOLD:N/A
NJ THRESHOLD:19,000

2,2,4-TRIMETHYL-1,3-PENTANEDIOL CAS#25265-77-4
NEW JERSEY RTK HAZARDOUS SUBSTANCE

New York:

AMMONIA CAS#7664-41-7RQ-AIR 100,RQ-
LAND 100
AMMONIA CAS#1336-21-6RQ-AIR 1000,RQ-LAND 100
2,2,4-TRIMETHYL-1,3-PENTANEDIOL CAS#25265-77-4RQ-AIR 5000,RQ-LAND 1

Pennsylvania:

| | | |
|---------------------------------|----------------|---------|
| AMMONIA | CAS#7664-41-7 | CODE:E |
| CALCIUM CARBONATE | CAS#1317-65-3 | CODE:E |
| TITANIUM DIOXIDE | CAS#13463-67-7 | CODE:-- |
| AMMONIA | CAS#1336-21-6 | CODE:E |
| EPOXY ESTER (2-BUTOXYETHANOL) | CAS#111-76-2 | CODE:-- |
| PROPYLENE GLYCOL | CAS#57-55-6 | CODE:-- |
| 2,2,4-TRIMETHYL-1,3-PENTANEDIOL | CAS#25265-77-4 | CODE:E |

Washington:

| | | |
|-----------------------------|---------------|----------------|
| AMMONIA | CAS#7664-41-7 | |
| WASHINGTON AIR CONTAMINANT: | ppm | mg/Cubic Meter |
| TWA | 25 | 18 |
| STEL | 35 | 27 |
| CEILING | UNK | UNK |
| SKIN:UNK | | |

| | | |
|--------------------------------|---------------|----------------|
| CALCIUM CARBONATE (RESPIRABLE) | CAS#1317-65-3 | |
| WASHINGTON AIR CONTAMINANT: | ppm | mg/Cubic Meter |
| TWA | UNK | 5 |
| STEL | UNK | UNK |
| CEILING | UNK | UNK |
| SKIN:UNK | | |

| | | |
|-------------------------------|----------------|----------------|
| TITANIUM DIOXIDE (TOTAL DUST) | CAS#13463-67-7 | |
| WASHINGTON AIR CONTAMINANT: | ppm | mg/Cubic Meter |
| TWA | UNK | 10 |
| STEL | UNK | UNK |
| CEILING | UNK | UNK |
| SKIN:UNK | | |

| | | |
|---|--------------|----------------|
| EPOXY ESTER (2-BUTOXYETHANOL) | CAS#111-76-2 | |
| WASHINGTON AIR CONTAMINANT: | ppm | mg/Cubic Meter |
| TWA | 25 | 120 |
| STEL | UNK | UNK |
| CEILING | UNK | UNK |
| SKIN:PROTECTIVE MEASURES SHOULD BE TAKEN TO PREVENT OR MINIMIZE SKIN ABSORPTION | | |

| | | |
|---------------------------------|----------------|----------------|
| 2,2,4-TRIMETHYL-1,3-PENTANEDIOL | CAS#25265-77-4 | |
| WASHINGTON AIR CONTAMINANT: | ppm | mg/Cubic Meter |
| TWA | 10 | 40 |
| STEL | 15 | 60 |
| CEILING | UNK | UNK |
| SKIN:UNK | | |

~~~~ SECTION 16 ~~~~ OTHER INFORMATION ~~~~

HMIS® III

|                 |     |
|-----------------|-----|
| Health          | : 2 |
| Flammability    | : 0 |
| Physical Hazard | : 0 |

\*Following Health rating Indicates Chronic/Carcinogenic Effects

HMIS® III Personal Protection : I

This rating is for the product as it is packaged. This rating will need to be adjusted by the user based on conditions of use.

The information contained herein relates only to the

*specific material identified. All-Weather Surfaces believes that such information is accurate and reliable as of the date of this material safety data sheet, but no representation, guarantee or warranty, expressed or implied, is made as to the accuracy, reliability, or completeness of the information. To assure proper use & disposal of these materials & the safety & health of employees & customers, All-Weather Surfaces urges persons receiving this information to make their own determination as to the information's suitability and completeness for their particular application.*