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MATERIAL SAFETY DATA SHEET

E-Z DENATURED SOLVENT ALCOHOL

Prepared: 1/06

EMERGENCY CONTACT: FOR CHEMICAL EMERGENCY - SPILL, LEAK, FIRE, EXPOSURE, OR ACCIDENT, CALL CHEMTREC AT 1-(800)-424-9300, DAY OR NIGHT.

HMIS NFPA INDEX Health Health 1 4 - Severe 1 Flammability 3 3 - Serious 3 Flammability Physical Hazard 0 2 - Moderate Reactivity 0

1 - Slight

0 - Insignificant

Section 2. COMPOSITION AND INFORMATION ON INGREDIENTS

COMPONENTS	CAS Number	<u>WEIGHT %</u>
METHANOL	67-56-1	57
ETHANOL	64-17-5	40
WATER	7732-18-5	2.6
METHYL ISOBUTYL KETONE	108-10-1	0.4

See Section 8 for Exposure Guidelines and Section 15 for Regulatory Classifications.

Section 3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Clear Liquid **Appearance**

Odor Alcohol

WARNING! FLAMMABLE LIQUID AND VAPOR. CAUSES EYE, SKIN, AND RESPIRATORY **Precautions**

TRACT IRRITATION. Keep away from heat and flame. Do not get in eyes, on skin, or on

clothing. Wash thoroughly after handling. Keep container closed. Use only with

adequate ventilation.

Environmental

Do not flush into surface water or sanitary sewer system. Low potential to affect aquatic Precautions

organisms and secondary waste treatment organisms. Readily biodegradable. Not likely to

bioconcentrate.

POTENTIAL HEALTH EFFECTS

Eyes Irritating to eyes. May cause corneal inflammation.

Skin Prolonged skin contact may cause skin irritation and/or dermatitis. Normal care and

personal hygiene should prevent skin effects.

Inhalation Irritation of the nose and throat, dizziness, and headache. Ingestion

Depression of central nervous system. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Prolonged ingestion may cause liver damage, "fetal-alcohol syndrome" in pregnant females and neuronal degeneration. Aspiration (breathing) into lungs, caused while vomiting, may result in severe pulmonary injury. Ingestion of methanol may cause blindness.

(See Section 11 for Toxicological Information)

SECTION 4. FIRE AID MEASURES

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Skin contact Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. When symptoms persist or in all cases of doubt seek medical advice.

Wash contaminated clothing before re-use.

Inhalation Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration.

If breathing is difficult, give oxygen. Call a physician immediately.

Ingestion If swallowed, call a physician or poison control center immediately. Do not induce

vomiting without medical advice. Never give anything by mouth to an unconscious person.

Section 5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

Flash point 11 °C 51 °F Methanol

5 °C 41 °F Ethanol

Autoignition

temperature

ca. 400 °C 752 °F

in air % by

Flammable limits Lower explosion limit: 4.0% (V) Upper explosion limit: 20.0% (V)

volume Fire and

Flash back possible over considerable distance. NFPA Class IB flammable liquid.

Extinguishing

media

explosion

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Fire fighting instructions

Wear self-contained breathing apparatus and protective suit. Keep containers and

surroundings cool with water spray.

Section 6. ACCIDENTAL RELEASE MEASURES

Steps to be taken in case of spill or leak Evacuate personnel to safe areas. Remove all sources of ignition. Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local/national regulations

(see Section 13). Do not flush into surface water or sanitary sewer system.

Spill precautions Material can create slippery conditions.

Section 7. HANDLING AND STORAGE

Safe handling advice

Ensure all equipment is electrically grounded before beginning transfer operations.

Storage/ Transport temperature Ambient

Section 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING MEASURES

Mechanical ventilation may be necessary if working with this product in enclosed areas and/or at elevated temperatures.

PERSONAL PROTECTIVE EQUIPMENT

Eyes When contact with liquid is possible, use a face shield and/or chemical splash goggles.

Otherwise, use safety glasses with side shields or goggles.

Skin Wear suitable protective clothing, gloves and eye/face protection.

Inhalation Respiratory protection is normally not required except in emergencies or when conditions

cause excessive airborne levels of mists or vapors. NIOSH-approved organic vapor air-purifying respirator, self-contained breathing apparatus, or air-supplied respirators

where there may be potential for overexposure.

EXPOSURE GUIDELINES

ComponentsExposure limit(s)MethanolOSHA PEL 200 ppm

ACGIH TLV (8-hour) 200 ppm ACGIH STEL 250 ppm (328 mg/m3)

Ethanol OSHA PEL 1,000 ppm (1,900 mg/m3)

ACGIH TLV (8-hour) 1,000 ppm (1,880 mg/m3)

Methyl isobutyl OSHA PEL 100 ppm

ketone ACGIH TLV (8-hour) 50 ppm

ACGIH STEL 75 ppm

PEL= Permissible Exposure Limits TWA= Time Weighted Average (8hr.)

TLV= Threshold Limit Value STEL= Short Term Exposure Limit (15 min.)

EL= Excursion Limit WEEL= Workplace Environmental Exposure Level

Section 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Liquid Vapor density ca. 1.5

Colour Clear Solubility (water) Complete

Odour Alcohol Melting point/range -98 °C -144 °F Methanol

Form Liquid Density 0.81 g/cm3 @ 15.5 °C (190 pf)

Boiling point/ 74 - 80 °C 165.2 - 176 °F Evaporation rate ca. 2 (n-butyl acetate = 1)

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Vapour pressure ca. 50 mm Hg @ 20 ℃

Section 10. STABILITY AND REACTIVITY

Conditions to

Keep away from heat and sources of ignition

avoid

Hazardous decomposition products

Combustion products include carbon dioxide, carbon monoxide and possibly other

unidentified organic compounds.

Incompatability

Can react with strong oxidizers, inorganic acids, and halogens.

with other materials

Hazardous None.

polymerization

Section 11. TOXICOLOGICAL INFORMATION

Eyes Irritating to eyes. (conclusion by analogy).

Skin Slightly irritating.

Test Substance: Ethanol Slightly irritating.

Test Substance: Methanol

Inhalation Acute 8 hours LC50 (rat): 16,000 mg/l Test Substance: Ethanol

Acute 8 hours LC50 (rat): >22,500 mg/l Test Substance: Methanol Acute 4 hours LC50 (rat): 2,000 - 4,000 mg/l Test Substance: MIBK

Ingestion Acute oral LD50 (rat): 6,200 - 17, 800 mg/kg

Test Substance: Ethanol

Acute oral LD50 (rat): 6,200 mg/kg

Test Substance: Methanol

Acute oral LD50 (rat): 1.6 - 5.7 mg/kg

Test Substance: MIBK

CARCINOGENICITY

This product contains no carcinogenic substances.

Section 12. ECOLOGICAL INFORMATION

Aquatic toxicity Low potential to affect aquatic organisms and secondary waste treatment organisms.

LC50 (P. Promelas (fathead minnow)) 96 hours 29,400 mg/l

Test Substance: Methanol

LC50 (P. Promelas (fathead minnow)) 96 hours 15,300 mg/l Ethanol

Biodegradation Readily biodegradable. Not likely to bioconcentrate.

Section 13. DISPOSAL CONSIDERATIONS

Waste code D001 - Ignitability (RQ 100 LB) This product has the RCRA characteristic of ignitability.

Re-evaluation of this product may be required by the user at the time of disposal, since the product uses, transformations, mixtures, contamination, and spillage may change the

classification.

Disposal methods

Dispose of only in accordance with local, state, and federal regulations. Do not contaminate

any lakes, streams, ponds, groundwater or soil.

Empty containers

Empty containers retain product residue (liquid and/or vapor) and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Empty drums should be

completely drained, triple-rinsed, properly bunged and promptly returned to a drum

reconditioner, or properly disposed.

Section 14. TRANSPORT INFORMATION

DOT description & Container Mode:

FLAMMABLE LIQUID, N.O.S., 3, UN1993, II (ETHANOL, METHANOL)

[55 Gal Drum/5 Gal Pail/Gallon]

DOT description & Container Mode:

CONSUMER COMMODITY, ORM-D

[Quart/Pint]

OTHER TRANSPORT INFORMATION

The DOT Transport Information may vary with the container and mode of shipment.

Section 14. REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

OSHA classification

Flammable liquid, Eye, skin and respiratory irritant

TSCA Inventory Listing

 Components
 CAS-No.

 Methanol
 67-56-1

 Ethanol
 64-17-5

 Water
 7732-18-5

 2-Pentanone, 4-methyl 108-10-1

SARA 302 Status

<u>Components</u> <u>CAS-No.</u> <u>Weight %</u>

Contains no chemicals subject to SARA 302 reporting.

SARA 311/312 Classification

"Fire hazard", "Immediate (acute) health hazard"

SARA 313 Chemical

ComponentsCAS-No.Weight %Methanol67-56-1572-Pentanone, 4-methyl-108-10-10.4

CERCLA HAZARDOUS SUBSTANCE

ComponentsCERCLA RQWeight %Methanol5,000 LB572-Pentanone, 4-methyl-5,000 LB0.4

INTERNATIONAL REGULATIONS

Workplace Hazardous Materials Information System (WHMIS) Classification

Class B, Division 2: Flammable liquid.

Class D, Division 2, Subdivision A: Very toxic material

Australian Inventory of Chemical Substances (AICS) Listing Listed on the AICS.

Japanese Minister of International Trade and Industry (MITI) Inventory Listing Listed on MITI.

Canadian Domestic Substance List (DSL) Inventory Listing Listed on the DSL.

European Inventory of Existing Commercial Chemical Substances (EINECS) Listing Listed on EINECS.

Phillipines Inventory List (PICCS)
Listed on PICCS.

Korean Inventory List Listed on ECL.

China Inventory List
Listed on the China inventory.

STATE REGULATIONS

California Safe Drinking Water Act (Prop 65) Listing

<u>Components</u>

Contains no chemical subject to California Prop 65.

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