

MATERIAL SAFETY DATA SHEET

I. PRODUCT IDENTIFICATION

Manufactured by: Millenia Productions, Inc. (3201 N Mead, Wichita, KS 67219)

Trade Name: Brush Cleaner

Information: (316) 425-2500

Date Prepared: 07/21/00

II. FIRST AID MEASURES

Eye Contact: Check for 15 and remove any contact lenses. IMMEDIATELY flush eyes with running water for at least 15 minutes, keeping eyelids open. COLD water may be used. DO NOT use an eye ointment. Seek medical attention.

Skin Contact: After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. COLD water may be used. Cover the irritated skin with an emollient. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.

Inhalation: Allow the victim to rest in well ventilated area. Seek immediate medical attention.

Ingestion: Induce vomiting. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive. Loosen tight clothing such as collar, tie, belt, waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.

III. COMPOSITION AND INFORMATION ON INGREDIENTS

Name	CAS#	% by Volume	TLV/PEL	LC50/LD50
Ethyl Acetate	141-78-5	>9	TWA: 400 (ppm) from ACGIH (TLV) TWA: 400 (ppm) from OSHA (PEL)	Oral (LD50): Acute: 5620 mg/kg [Rat].
Methyl Ethyl Ketone	78-93-3	57	TWA: 200 (ppm) from OSHA (PEL)	Not Available

IV. HAZARDS IDENTIFICATION

Potential Acute Health Effects: Hazardous in case of skin contact (irritant, permeator), of eye contact (irritant), of Inhalation, Slightly hazardous in case of ingestion. Severe over-exposure can result in death.

Potential Chronic Health Effects: CARCINOGENIC EFFECTS: Classified A5 (Not suspected for human) by ACGIH, 4 (Probably not for human) by IARC [Methyl Ethyl Ketone]

MUTAGENIC EFFECTS: Not Available

TERATOGENIC EFFECTS: Not Available

DEVELOPMENTAL TOXICITY: Not Available

Repeated exposure to an highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.

V. FIRE AND EXPLOSION DATA

Flammability of the Product: Flammable

Auto-Ignition Temperature: The lowest known value is 427 deg C (800.6 deg F) (Ethyl acetate)

Flash Points: The lowest known value is CLOSED CUP: -5 deg C (23 deg F) (Tagliabue) (Methyl Ethyl Ketone)

Flammable Limits: The greatest known range is LOWER: 1.8% UPPER: 11.5% (Methyl Ethyl Ketone)

Products of Combustion: These products are carbon oxides (CO, CO2)

Fire Hazards in Presence of Various Substances: Highly flammable in presence of open flames and sparks, of heat, of moisture.

Fire Fighting Media and Instructions: Flammable liquid, soluble or dispersed in water. Moisture reactive material.

SMALL FIRE: Obtain advice on use of water. Use DRY chemicals, soda ash or lime.

LARGE FIRE: Use alcohol foam, water spray or fog. DO NOT use water jet.

VI. ACCIDENTAL RELEASE MEASURES

Small Spill: Dilute with water and mop up, or absorb with an inert DRY material and place in an appropriate waste disposal container.

Large Spill: Flammable liquid.

Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. DO NOT touch spilled material. Prevent entry into sewers, basements or confined areas; dike if needed. Eliminate all sources of ignition. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

VII. HANDLING AND STORAGE

Precautions: Keep locked up. DO NOT ingest. Do not breathe gas, fumes, vapor or spray. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents, acids, alkalis, moisture.

Storage: Keep container tightly closed. Keep in cool, well ventilated place. Highly toxic or infectious materials should be stored in a separate locked safety storage cabinet or room.

VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work station location.

Personnal Protection: Splash goggles. Full suit. Wear appropriate respirator when ventilation is inadequate. Gloves.

Personal Protection in Case of a Large Spill: Splash goggles. Full suit. Wear appropriate respirator when ventilation is inadequate. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling the product.

IX. PHYSICAL AND CHEMICAL PROPERTIES

Physical state and appearance: Liquid

Odor: Ketone

Molecular Weight: Not Applicable

Color: Clear

pH: Neutral

Boiling Point: The lowest known value is 77 deg C (170.6 deg F) (Ethyl acetate). Weighted average: 78.14 deg C (172.7 deg F)

Melting Point: May start to solidify at -83.6 deg C (-118.5 deg F) based on data for: Ethyl acetate.

Solubility: Easily soluble in methanol, acetone. Soluble in diethyl ether. Partially soluble in cold water, hot water.

Specific Gravity: Weighted average: 0.85 (Water = 1)

Vapor Pressure: The highest known value is 73 mm of Hg (@ 20 deg C) (Ethyl acetate). Weighted average: 71.8 mm of Hg (@ 20 deg C)

Vapor Density: The highest known value is 3.04 (Air = 1) (Ethyl acetate). Weighted average: 2.73 (Air = 1)

Volatility: 100% (v/v) (Methyl Ethyl Ketone). 100% (w/w) (Methyl Ethyl Ketone).

Viscosity: Not Available

Evaporation Rate: 3.8 (Methyl Ethyl Ketone) compared to Butyl acetate.

X. STABILITY & REACTIVITY DATA

Stability: Stable

Instability Temperature: Not Available

Conditions of Instability: No Additional remarks

Incompatibility with various substances: Highly reactive with oxidizing agents. Reactive with acids, alkalis, moisture.

Corrosivity: Non-corrosive in presence of glass.

XI. TOXICOLOGICAL INFORMATION

Routes of Entry: Absorbed through skin. Eye contact. Inhalation.

Toxicity to Animals: WARNING: THE LC50 VALUES HEREUNDER ARE ESTIMATED ON THE BASIS OF 4 HOUR EXPOSURE.

Acute oral toxicity (LD50): 5620 mg.kg [Rat]. (Ethyl acetate).

Acute toxicity of the vapor (LC50): 19596 ppm 4 hour(s) [Rat] (Ethyl acetate).

Chronic Effects on Humans: CARCINOGENIC EFFECTS: Classified A5 (Not suspected for human) by ACGIH, 4 (Probably not for human) by IARC [Ethyl acetate]. Classified A5 (Not suspected for human) by ACGIH, 4 (Probably not for human) by IARC [Methyl Ethyl Ketone].

Other Toxic Effects on Humans: Hazardous in case of skin contact (irritant, permeantor), of eye contact (irritant), of inhalation. Slightly hazardous in case of ingestion.

XII. ECOLOGICAL INFORMATION

Exotoxicity: Not available

BODS and COD: Not available

Products of Biodegradation: Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The products of degradation are less than the product itself.

XIII. DISPOSAL CONSIDERATIONS

Waste Disposal: Recycle, if possible. Consult your local or regional authorities.

XIV. TRANSPORT INFORMATION

DOT Classification: DOT CLASS 3: Flammable liquid.

PIN: Shipping Name: Paint Related Material UNNA: UN1263 PG II

Special Provisions for Transport: No additional remark

DOT (Pictograms):



XV. OTHER REGULATORY INFORMATION AND PICTOGRAMS

Federal and State Regulations: SARA 302/304/311/312 extremely hazardous substances: No products were found.

SARA 313 toxic chemical notification and release reporting: Methyl Ethyl Ketone;

CERCLA hazardous substances: Ethyl acetate: Methyl Ethyl Ketone;

All Components of this product are listed on the TSCA Inventory.

HMIS (U.S.A.):



**National Fire
Protection
Association (U.S.A.)**

Health



Fire Hazard

Reactivity

Specific hazard

XVI. OTHER INFORMATION

Millenia Productions believes that the information contained in this M.S.D.S. is correct as of this date. However, because the material may be used under conditions which Millenia Productions has no control of in ways we can not anticipate, we give no warranty expressed or implied, as to the accuracy of the information and assume no responsibility for any damage to person, property of business arising from such use. Moreover, it is the responsibility of the purchaser or user of this material to ensure that is properly and safety used.