

**Material Safety Data Sheet
(ACID ETCH 45)**

JMN Specialties, Inc. 1100 Victory Drive Westwego, LA 70094 (504) 341-3749 ISO 9001 Registered	HMIS HEALTH:.....3 HMIS FLAMMABILITY:0 HMIS REACTIVITY:.....0 PERSONAL PROTECTION:H EMERGENCY NUMBER:800-255-3924
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SECTION 1 – IDENTIFICATION OF CHEMICAL PRODUCT

PRODUCT NAME:..... ACID ETCH 45
EFFECTIVE DATE:..... August 31, 2007
CHEMICAL FAMILY:..... Compound Cleaning Liquid
FORMULA:..... Proprietary
CAS NUMBER:..... Blend

SECTION 2 – COMPOSITION / INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENT	PERCENT	CAS NUMBER	PEL
Glycol Ether EB	< 8	111-76-2	OSHA TWA (SKIN) 50 ppm ACGIH TWA (SKIN) 25 ppm ACGIH STEL 75 ppm
Phosphoric Acid	< 50	7664-38-2	OSHA TWA 1 mg/m ³ (PEL) ACGIH TWA 1 mg/m ³ ACGIH STEL 3 mg/m ³
Sulfuric Acid	< 20	7664-93-9	OSHA TWA 1 mg/m ³ , ACGIH TWA 25 PPM, STEL 3 mg/m ³
Ammonium Bifluoride	< 10	1341-49-7	None Established

The criteria for listing components in the composition section are as follows: Carcinogens are listed when present at 0.1% or greater; components which are otherwise hazardous according to OSHA are listed when present at 1.0% or greater. Non-hazardous components may be listed at 3.0% or greater if not proprietary in nature. This is not intended to be complete compositional disclosure. Refer to section 14 for applicable states right to know and other regulatory information.

SECTION 3 – HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

APPEARANCE / ODOR:..... Brownish Liquid / Irritating Odor

SHORT TERM EXPOSURE: **GENERAL:** This product contains acids that are corrosive and can cause severe and painful burns on contact with any part of the body or if taken internally. The mucous membranes of the eyes and the upper respiratory tract are especially susceptible to these irritating effects.
INHALATION: Inhalation of excessive concentrations of mist or vapor can cause severe irritation of the upper respiratory tract, resulting in coughing, burning of the throat, and a choking sensation. If inhaled deeply, edema of the lungs may occur. **EYES:** Contact with this product, either in gas or in solution, can cause severe irritation and painful burns of the eyes and eyelids. The acid MUST be removed quickly with thorough irrigation with water or there may be prolonged

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or permanent visual impairment or total loss of sight. **SKIN:** Concentrated solutions are destructive to clothing and on contact with skin, can cause severe burns unless promptly washed off.

INGESTION: This product, when swallowed, can cause severe burns of the mucous membranes of the mouth, esophagus and stomach.

OSHA REGULATED: No

LISTED CARCINOGEN: **NTP:** Yes **IARC MONOGRAPHS:** No

POTENTIAL HEALTH EFFECTS

INHALATION: Corrosive

INGESTION: Corrosive

SKIN (DERMAL): Corrosive

OVER EXPOSURE EFFECTS: **Inhalation:** Respiratory tract irritant, may cause burns on acute contact. **Ingestion:** Severe irritant to mucous membranes and may cause perforation of the esophagus and stomach. Abdominal pain, nausea, vomiting, general gastro-intestinal upset can be expected. **Skin Contact:** Irritant, possibly corrosive if contact is prolonged. **Eye Contact:** Irritant, possibly corrosive to eye tissues. Tearing, redness, pain, impaired vision are symptoms. **Chronic Exposure:** Development of a defatting dermatitis or destruction of skin on prolonged contact with acids have been reported. Continued irritation may lead to increased susceptibility to respiratory illness. **Aggravation of Pre-existing Conditions:** Persons with pre-existing skin disorders or eye problems, or impaired kidney or respiratory function may be more susceptible to the effects of the substance.

SECTION 4 – FIRST AID MEASURES

FIRST AID:

SKIN CONTACT: Remove contaminated clothing and shoes immediately. Wash affected area with soap or mild detergent and large amounts of water until no evidence of chemical remains (at least 15-20 minutes). Get medical attention immediately. **EYE CONTACT:** Flush eyes immediately with large amounts of water or normal saline solution, occasionally lifting upper and lower lids until no evidence of chemical remains (at least 15-20 minutes). Get medical attention immediately. **INGESTION:** Give large amounts of fresh water or milk immediately. Do not give anything by mouth if person is unconscious or otherwise unable to swallow. If vomiting occurs, keep head below hips to prevent aspiration. Treat symptomatically and supportively. Seek medical attention immediately. **INHALATION:** Remove from exposure area to fresh air immediately. If breathing has stopped, perform artificial resuscitation. Keep person warm and at rest. Treat symptomatically and supportively. Seek medical attention immediately. Qualified medical personnel should consider administering oxygen.

SECTION 5 - FIRE FIGHTING MEASURES

FLASHPOINT:..... Non Flammable Liquid

EXTINGUISHING MEDIA: Do not use water, use Dry Powder or Carbon Dioxide (CO₂).

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DECOMPOSITION

PRODUCTS:..... From Fire; Smoke, Carbon Dioxide, Carbon Monoxide, Oxides of Phosphorous, Oxides of Nitrogen, and Oxides of Sulfur.

LOWER FLAME LIMIT:..... NA

HIGHER FLAME LIMIT:..... NA

UNUSUAL FIRE AND

EXPLOSION HAZARDS:..... Containers may explode from internal pressure if confined to fire. Cool with water. Keep unnecessary people away.

FIRE FIGHTING

EQUIPMENT:..... Fire fighters and others exposed to products of combustion should wear self-contained breathing apparatus. Equipment should be thoroughly decontaminated after use.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

CHEMTEL EMERGENCY

NUMBER (24 Hour): 1-800-255-3924

SPILL: Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Contain and recover liquid when possible. Neutralize with alkaline material (soda ash, lime), then absorb with an inert material (e. g., vermiculite, dry sand, earth), and place in a chemical waste container. Do not use combustible materials, such as saw dust. Do not flush to sewer!

RCRA STATUS: 1,689 lbs. based on Sulfuric Acid in blend

SECTION 7 – HANDLING AND STORAGE

HANDLE IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE AND SAFETY PRACTICES. THESE PRACTICES INCLUDE AVOIDING UNNECESSARY EXPOSURE AND PROMPT REMOVAL OF MATERIAL FROM EYES, SKIN, AND CLOTHING.

HANDLING AND STORAGE: .. Store in a cool place away from ignition sources. Store away from caustic or alkaline materials. Store away from oxidizers or materials bearing a yellow "DOT" label.

PRECAUTIONARY

MEASURES: Keep away from heat, sparks and flame. Use only in an area well ventilated by moving air. Keep flow of fresh air until all vapors (odors) are gone. Do not breathe vapors. Do not breathe spray mist. Do not get in eyes, on skin, or on clothing. When spraying, follow spray equipment manufacturer's recommendations carefully. Wear appropriate respirator.

SECTION 8 – EXPOSURE CONTROL / PERSONAL PROTECTION

GENERAL CONSIDERATIONS:

Consider the potential hazards of this material (see section 3), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment.

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EYE PROTECTION:..... Chemical safety goggles meeting the specifications of OSHA 29CFR 1910.133 / ANSI Standard Z87.1 should be worn whenever there is the possibility of splashing or other contact with the eyes. Wear safety glasses meeting the specifications of OSHA 29CFR 1910.133 / ANSI Standard Z87.1 where no contact with the eye is anticipated.

RESPIRATORY

PROTECTION:..... Use NIOSH approved acid vapor respirator if exposure is unknown or exceeds permissible limits. A respiratory protection program that meets OSHA's 29 CFR 1910.134 or ANSI Z88.2 requirements must be followed whenever workplace conditions warrant respirator use.

Use NIOSH / MSHA approved respiratory protection equipment when airborne exposure limits are exceeded (see below). Consult the respirator manufacturer to determine appropriate type of equipment for a given application. Observe respirator use limitations specified by NIOSH / MSHA or the manufacturer. Respiratory protection programs must comply with 29 CFR 1910.134.

WARNING: Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

PROTECTIVE GLOVES:..... Acid resistant gloves required.

VENTILATION:

A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.

MECHANICAL EXHAUST: Desired in closed places

LOCAL EXHAUST: Recommended

VENTILATION NOTES: Provide natural or mechanical ventilation to control exposure levels below Airborne exposure limits (see below). The use of local mechanical exhaust ventilation is preferred at sources of air contamination such as open process equipment. Consult NFPA Standard 91 for design of exhaust systems.

THRESHOLD LIMIT VALUE: 1 mg/m³ based on Phosphoric & Sulfuric Acids in blend

PROTECTIVE EQUIPMENT:... HMIS PERSONAL PROTECTION: H: Splash Goggles, Gloves, Apron, Vapor Respirator

The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE / ODOR: Brownish Liquid / Irritating Odor

BOILING POINT: 212°F

FREEZING POINT: 32°F

VAPOR PRESSURE:..... ND

VAPOR DENSITY (AIR=1): > 1

SPECIFIC GRAVITY: 1.17 - 1.18

pH: < 1

SOLUBILITY IN WATER: Soluble

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SECTION 10 – STABILITY AND REACTIVITY

STABILITY:..... Stable

HAZARDOUS

POLYMERIZATION:..... Will Not Occur

POLYMERIZATION AVOID:... None

INCOMPATIBILITY:..... Alkaline Materials. Oxidizers or Oxidizing Materials.

CONDITIONS TO AVOID:..... Excessive Heat or Open Flames

SECTION 11 – TOXICOLOGICAL INFORMATION

EYE EFFECTS:

The eye irritation hazard is based on data from information supplied by raw material(s) supplier(s).

SKIN EFFECTS:

The skin irritation hazard is based on data from information supplied by raw material(s) supplier(s).

ACUTE ORAL EFFECTS:

The acute oral toxicity is based on data from information supplied by raw material(s) supplier(s).

ACUTE INHALATION EFFECTS:

The acute respiratory toxicity is based on data from information supplied by raw material(s) supplier(s).

SECTION 12 – ECOLOGICAL INFORMATION

Data from laboratory studies and from scientific literature is noted below if available.

The EPA has issued a Final Rule deleting Phosphoric Acid from the list of chemicals subject to reporting requirements under section 313 of the Emergency Planning and Community-Right-to-Know Act (EPCRA) and section 6607 of the Pollution Prevention Act (PPA) effective June 27, 2000. Federal Register: June 27, 2000, Volume 65, Number 124, Pages 39552 - 39556.

SECTION 13 DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: Treatment, storage, transportation and disposal must be in accordance with Federal, State/Provincial and Local Regulations. Regulations may vary in different locations. Characterization and compliance with applicable laws are the responsibility solely of the generator. Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

SECTION 14- TRANSPORTATION INFORMATION

The data provided in this section is for information only. The description shown may not apply to all shipping situations. Consult 49CFR, or appropriate regulations to properly classify your shipment for transportation.

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PROPER SHIPPING NAME:..... Corrosive Liquid, N.O.S. Contains (SULFURIC and PHOSPHORIC ACID), 8, UN1760, PG II. Guide #154
REPORTABLE QUANTITY:..... 1,689 lbs. based on Sulfuric Acid in blend
HAZARD CLASS AND LABEL: 8, Corrosive Liquid
UN NUMBER: 1760
NA NUMBER: None
PACKAGING SIZE:..... Drum & Bulk

SECTION 15 - REGULATORY INFORMATION
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SARA 311 CATEGORIES:

EPA ACUTE:..... Yes
EPA CHRONIC: Yes
EPA IGNITABILITY: No
EPA REACTIVITY: No
EPA SUDDEN RELEASE OF PRESSURE: No

CERCLA RQ VALUE:..... 1,689 lbs. based on Sulfuric Acid in blend
SARA TPQ: 6,059 lbs. based on Sulfuric Acid in blend
SARA RQ:..... 1,689 lbs. based on Sulfuric Acid in blend
EPA HAZARD WASTE #: D002 - Characteristics of Corrosivity
CLEAN AIR: CAA Section 111
CLEAN WATER:..... CWA Section 311
SARA SECTION 313:..... Yes - Sulfuric Acid
NFPA HEALTH: 3
NFPA FLAMMABILITY:..... 0
NFPA REACTIVITY: 0
DEA Chemical Trafficking Act:.. No
TSCA STATUS: All ingredients in this product are on the TSCA Inventory List.

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SECTION 16 - ADDITIONAL INFORMATION

FOOT NOTES: ND - No Data Available NA - Not Applicable < = Less Than > = Greater Than

Prepared according to the OSHA Hazard Communication Standard (29 CFR 1910.1200) and the ANSI MSDS Standard (Z400.1) by the Company Health and Risk Assessment Unit, PO Box 1519, Gretna, LA 70054-1519.

REVISION STATEMENT: Changes have been made throughout this Material Safety Data Sheet. Please read the entire document.

DISCLAIMER:

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