

# **MATERIAL SAFETY DATA SHEET**

## SECTION I - MATERIAL IDENTIFICATION

PRODUCT NAME: Acetic Anhydride  
OTHER NAMES: Acetyl Oxide, Acetic Oxide  
SELLER: Alcotrade, Inc  
16300 NE 19<sup>th</sup> Ave, Ste 212  
North Miami Beach, FL 33162

**24-HOUR EMERGENCY ASSISTANCE: (800)-424-9300**

Call this number only in the event of chemical emergency involving a spill, leak, fire, exposure or accident involving chemicals.

FOR OTHER INFORMATION CALL: (305)-947-0108

Date prepared: January 2005

## SECTION II - COMPONENTS

<u>Component(s)</u>	<u>CAS #</u>	<u>% by wt</u>	<u>OSHA PEL</u>
Acetic anhydride	108-24-7	99-100	5 ppm
Acetic acid	064-19-7	0-1	10 ppm

The remaining components are trade secret.

## SECTION III - HEALTH HAZARDS

### ROUTES OF EXPOSURE

Eye contact.  
Skin contact.  
Ingestion.  
Inhalation.

## EXPOSURE STANDARDS

See Section II.

Maintain air contaminant concentrations in the workplace at the lowest possible levels.

## HEALTH HAZARDS

Harmful if in contact with skin.

Corrosive and severe irritant to eyes.

Corrosive and severe irritant to respiratory system.

Corrosive and severe irritant to skin.

## SIGNS AND SYMPTOMS OF EXPOSURE

Repeated and/or prolonged exposure may result in adverse respiratory effects, adverse eye effects, and adverse skin effects.

## MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE

Asthma

Chronic respiratory disease

Eye disease

Skin disorders and Allergies

## CARCINOGENS UNDER OSHA, NTP, IARC

This product contains no carcinogens in concentrations of 0.1 % or greater

## SECTION IV – FIRST AID

### EYE CONTACT

Flush eyes open with plenty of water for at least 15 minutes. Seek medical advice.

### SKIN CONTACT

Flush contaminated area with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Cover the affected area with sterile dressing or clean sheeting or clean sheeting and transport for medical care. Control shock, if present.

### INHALATION

Move patient to fresh air. If breathing has stopped or is labored give assisted respiration (e.g. mouth-to-mouth). Prevent aspiration of vomit. Turn patient's head to the side. Seek medical advice.

### INGESTION

Administer 3-4 glasses of milk or water. Do NOT induce vomiting. Seek medical advice.

## SECTION V – FIRE AND EXPLOSION DATA

FLASH POINT (closed cup):	53°C (127°F)
UPPER FLAMMABILITY LIMIT:	12.4%
LOWER FLAMMABILITY LIMIT:	2.7%
AUTOIGNITION TEMPERATURE:	332°C (630°F)

### EXTINGUISHING MEDIA:

- Water spray.
- Dry chemical.
- Carbon dioxide.
- “Alcohol” foam.

### SPECIAL FIRE FIGHTING PROCEDURES:

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Use water spray to cool containers.

### UNUSUAL FIRE AND EXPLOSION HAZARDS

- Material reacts violently with water.
- Material is combustible. Keep away from heat and flames.
- Vapors may travel along ground to a source of ignition and flash back.
- Vapors form explosive mixtures with air.
- Vapors may collect in closed spaces, sewers, caves, or structures.
- May generate carbon monoxide gas.

## SECTION VI – ACCIDENTAL RELEASE MEASURES

### EMERGENCY ACCION

- Keep unnecessary people away, isolate area and deny entry. Stay upwind.
- See personal protection section before taking any further steps.

### ENVIRONMENTAL PRECAUTIONS

Take immediate steps to stop and control release. Caution should be exercised regarding personnel safety and exposure to the released product. Notify local authorities and the National Response Center if required.

### SPILL OR LEAK PROCEDURES

Keep ignition sources out of area and shut off all ignition sources. Absorb spill with inert material then place in a chemical waste container. For large spills, dike far ahead of liquid spill for later disposal. Shut off leak if safe to do so. Avoid runoff into storm sewers and ditches.

## SECTION VII – HANDLING AND STORAGE

### HANDLING

Avoid contact with skin or eyes. Avoid breathing of vapors. Handle in well-ventilated workspace. See personal protection section. Ground lines and equipment used during transfer of product. Use non-sparking tools. Remove all equipment, which may be a source of ignition from the vicinity while handling. Observe all recommendations of the National Fire Protection Association; Code 30 “Flammable and combustible liquids Code”.

Absolutely no smoking, drinking or eating while handling.

### STORAGE

Store away from ignition sources. Ground all containers. Store in appropriate containers aboveground in a diked area. Electrical installations should be in accordance with the National Electric Code. Empty containers may contain residue and flammable vapors. Do not reuse without adequate precautions.

### OTHER PRECAUCIONS

Warning: material reacts violently with water.

Emergency showers and eye wash stations should be in readily accessible.

## SECTION VIII – PERSONAL PROTECTION

### EYE PROTECTION

Goggles or full face shield with goggles underneath.

### PROTECTIVE WEAR

Employee must wear appropriate protective (impervious) clothing and gloves.

### RESPIRATORY PROTECTION

An appropriate NIOSH/MSHA approved respirator or self-contained breathing apparatus should be worn when any exposure limit is exceeded.

### OTHER PROTECTIVE EQUIPMENT

Eye bath and safety shower should be available.

### SECTION IX - PHYSICAL DATA

Boiling Point:	139°C (282°F)
Vapor pressure (mm Hg):	3.8
Vapor density (air =1):	3.5
Solubility in water:	decomposes
Specific gravity (H <sub>2</sub> O=1):	1.08
Melting Point:	-73°C (-99°F)
Evaporation rate (n-butyl acetate =1):	not available
Appearance:	liquid
Color:	colorless
Odor:	pungent, acrid

### SECTION X – STABILITY AND REACTIVITY

CHEMICAL STABILITY:	Stable at ambient temperature and pressure.
CONDITIONS TO AVOID:	Heat.
INCOMPATIBILITY:	Reacts violently with water, oxidizers, bases and alcohols.
HAZARDOUS POLYMERIZATION:	Will not occur.
HAZARDOUS DECOMPOSITION PRODUCTS	

Irritating and toxic fumes at elevated temperatures. Combustion will produce carbon dioxide and possibly carbon monoxide and reactive hydrocarbons.

### SECTION XI – TRANSPORTATION

Shipping name:	Acetic anhydride
Hazard class:	8
Packing group:	II
Placard ID number:	UN 1715
Reportable Quantity (RQ):	5,000 lbs.

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