

(I) Chemical Product and Company Identification

Item Number: A015577

Item Name: Acetaldehyde Acetal

Synonyms: Acetal; 1,1-Diethoxyacetal; 1,1-Diethoxyethane; Acetaldehyde Diethyl Acetal

Nouresh'shark Co, Fine Chemicals, Egypt
 10th. of Ramadan City, 3rd. Industrial Zone, A6, Segment Nr. 7/ 136
 Tel Fax: +2015-412636, 412637 and 412638

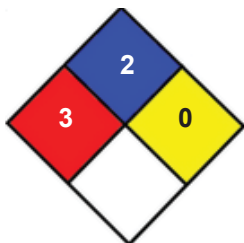
For information, call: +2015-412636, 412637
 and 412638. Mobile:+201006664429
 For emergency, call: +201006664471

(II) Composition and Information on Ingredients

CAS Number	EC Number	Formula	Frl Wt (g/ Mole)	Purity (%)	Shelf Life
105-57-7	203-310-6	C6H14O2	118.17	99	3 Years

(III) Hazards Identification

Health	2
Flammability	3
Reactivity	0
Personal Protection	E



H225:Highly flammable liquid and vapour

H315+ H319:Causes skin irritation. Causes serious eye irritation

P210:Keep away from heat/sparks/open flames/hot surfaces – No smoking

P243:Take precautionary measures against static discharge

P403:Store in a well ventilated place



Potential Health Effects:

Inhalation: May be harmful if inhaled. May cause respiratory tract irritation.

Skin: May be harmful if absorbed through skin. May cause skin irritation.

Eyes: May cause eye irritation.

Ingestion: May be harmful if swallowed.

Target Organ: Not Available

Chronic Effects:

Not Available

(IV) First Aid Measures

If Inhaled: If breathed in, move person into fresh air. If not breathing give artificial respiration Consult a physician.

If On Skin: Wash off with soap and plenty of water. Consult a physician.

If In Eyes: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If Swallowed: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

(V) Fire-Fighting Measures

Flash Point (°C): -21

Auto-Ignition Temperature(°C): Not Available

Suitable Extinguishing Media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special Protective Equipment for Fire-Fighters: Wear self contained breathing apparatus for fire fighting if necessary.

(VI) Accidental Release Measures

Personal Precautions: Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation.

Environmental Precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container. Prevent further leakage or spillage if safe to do so.

(VII) Handling and Storage

Handling: Avoid contact with skin and eyes. Avoid inhalation of dust, vapour or mist. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

Storage Conditions: Stored at 23 °C maximum, in well ventilated, dry place. Keep container tightly closed away from air, moisture and light.

(VIII) Exposure Controls/ Personal Protection

Engineering Controls: Use adequate ventilation to keep airborne concentrations low.

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: Use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate standards

(IX) Physical and Chemical Properties

Shape: Liquid

Color: Colorless

Water Solubility: 46 g/L (25 °C)

Density (Gm/ CC): 0.825

Melting Point (°C): -100

Boiling Point (°C): 103

Flash Point (°C): -21

Viscosity (Centipoise): Not Available

Surface Tension (Dynes/cm): Not Available

Vapor Pressure: 100 mm Hg at 50.1 °C

Refractive Index: 1.379-1.385

Optical Activity [a]_{D20}: Not Available



(X) Stability and Reactivity Data

Chemical Stability: Stable under recommended storage conditions.

Incompatibilities with Other Materials: Not Available

Hazardous Combustion or Decomposition Products: May be hazardous fumes and vapors

Conditions to Avoid: Direct light, open air, moisture, bad ventilation, heating

(XI) Toxicological Information

Toxicity Data:

LD50 orally in rats: 4.57 g/kg (Smyth)

Carcinogenicity Data:

OSHA: Not Available

IARC: Not Available

Carcinogenicity (NTP): Not Available

ACGIH: Not Available

(XII) Ecological Information

Toxicity to Aquatic Organisms: Not Available

Biodegradability: Not Available

Effect on Soil: Not Available

PBT and vPvB Assessment: Not Available

Other adverse effects: Not Available

(XIII) Disposal Considerations

Product: Follow legal and local regulations. Consult a professional waste disposal service.

Contaminated Packaging: Dispose as a used package

(XIV) Transport Information

DOT_Shipping Name: Acetal

DOT_UN Number: UN1088

DOT_Hazard Class: 3

DOT_Packing Group: II

DOT_Limited Quantity: 60 L

IMDG_Shipping Name: Acetal

IMDG_UN Number: UN1088

IMDG_Hazard Class: 3

IMDG_Packing Group: II

IMDG_Limited Quantity: 60 L

IATA_Shipping Name: Acetal

IATA_UN Number: UN1088

IATA_Hazard Class: 3

IATA_Packing Group: II

IATA_Limited Quantity: 60 L

Transport Pictograms:





(XV) Regulatory Information

Exposure Maximum Limit:

OSHA List of Hazardous Materials (USA): Not Available

NIOSH REL List (USA): Not Available

REACH Restriction List (European Union): Not Available

Threshold Limit Values (TLV) of ACGIH (USA): Not Available

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

Health: 2

Flammability: 3

Reactivity: 0

Specific hazard:

Hazardous Materials Identification System (USA):

Health Hazard: 2

Fire Hazard: 3

Reactivity: 0

Personal Protection: E

Packaging and labeling was according to (GHS):

Hazard Statement(s): H225;H315+ H319

Precautionary statement(s): P210;P243;P403

(XVI) Other Information

The information on this Material Safety Data Sheet is correct to the best of our knowledge as of the date of publication. This information should be used only as a guide and is not a guarantee of any specific properties. All chemicals should be handled by qualified personnel using proper handling precautions. Nouresh'shark Co cannot accept liability for any loss, damage, or injury that results from the use of this chemical. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.

Version: 1.01

Revision Date: 28/12/2015

Print Date: 30/01/2016