

(I) Chemical Product and Company Identification

Item Number: A010523

Item Name: Acetaldehyde Solution, (20-30) % in Water

Synonyms: Ethanal; Acetic aldehyde; Ethylaldehyde

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

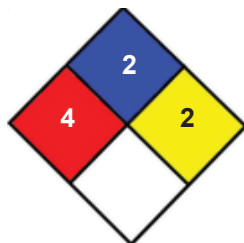
For information, call: +2015-412636, 412637
 and 412638. Mobile:+201006664429
 For emergency, call: +201006664471

(II) Composition and Information on Ingredients

CAS Number	EC Number	Formula	Frl Wt (g/ Mole)	Purity (%)	Shelf Life
75-07-0	200-836-8	C ₂ H ₄ O	44.05	20- 30	3 Years

(III) Hazards Identification

Health	2
Flammability	4
Reactivity	2
Personal Protection	K



H224:Extremely flammable liquid and vapour

H319+ H335:Causes serious eye irritation. May cause respiratory irritation

H351:Suspected of causing cancer

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

P243:Take precautionary measures against static discharge

P280:Wear protective gloves/protective clothing/eye protection/face protection

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: Blood, kidneys, central nervous system, liver, lungs, eyes, skin.

Chronic Effects:

Prolonged or repeated skin contact may cause dermatitis, eye contact may cause conjunctivitis, skin contact may cause erythema (redness). Long-term inhalation studies produced cancers in animals

(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): -38°C (Anh.)

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: Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Use water spray to dilute spill to a non-flammable mixture.

(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 (4- 8) °C, 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: Soluble

Density (Gm/ CC): 0.788 (Anh.)

Melting Point (°C): -123.5 (Anh.)

Boiling Point (°C): 21 (Anh.)

Flash Point (°C): -38°C (Anh.)

Viscosity (Centipoise): Not Available

Surface Tension (Dynes/cm): Not Available

Vapor Pressure: 105 kPa at 20 °C (Anh.)

Refractive Index: 1.3316

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



(X) Stability and Reactivity Data

Chemical Stability: Stable under recommended storage conditions.

Incompatibilities with Other Materials: Strong bases, acids, oxidizing agents, reducing agents

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: 1930 mg/ kg (Smyth) (100 % Compound)

Carcinogenicity Data:

OSHA: Not Available

IARC: Possibly carcinogenic to humans

Carcinogenicity (NTP): Reasonably anticipated to be human carcinogens

ACGIH: Confirmed animal carcinogen with unknown relevance to humans

(XII) Ecological Information

Toxicity to Aquatic Organisms: Fish: Fathead Minnow: EC50 = 30.8-37.2 mg/L; 96 Hr. Fish: Bluegill/Sunfish: LC50 = 53 mg/L; 96 Hr. Water flea Daphnia: EC50 = 9000-14000 mg/L; 48 Hr

Biodegradability: If released into water it will rapidly biodegrade and volatilize (half-life 3 hrs for a typical river).

Effect on Soil: If released. it will degrade in hours by reaction with hydroxyl radicals and photolysis

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: Acetaldehyde

DOT_UN Number: UN1089

DOT_Hazard Class: 3

DOT_Packing Group: I

DOT_Limited Quantity: 30 L

IMDG_Shipping Name: Acetaldehyde

IMDG_UN Number: UN1089

IMDG_Hazard Class: 3

IMDG_Packing Group: I

IMDG_Limited Quantity: 30 L

IATA_Shipping Name: Acetaldehyde

IATA_UN Number: UN1089

IATA_Hazard Class: 3

IATA_Packing Group: I

IATA_Limited Quantity: 30 L

Transport Pictograms:





(XV) Regulatory Information

Exposure Maximum Limit:

OSHA List of Hazardous Materials (USA): 200 ppm

NIOSH REL List (USA): Not Available

REACH Restriction List (European Union): Not Available

Threshold Limit Values (TLV) of ACGIH (USA): 25 ppm

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

Health: 2

Flammability: 4

Reactivity: 2

Specific hazard:

Hazardous Materials Identification System (USA):

Health Hazard: 2

Fire Hazard: 4

Reactivity: 2

Personal Protection: K

Packaging and labeling was according to (GHS):

Hazard Statement(s): H224;H319+ H335;H351

Precautionary statement(s): P210;P243;P280

(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: 28/01/2016