



SAFETY DATA SHEET

Preparation Date: 1/19/2017

Revision Date: 1/19/2017

Revision Number: G1

1. IDENTIFICATION

Product identifier

Product code: A1002
Product Name: ACETALDEHYDE, REAGENT

Other means of identification

Synonyms: Acetic aldehyde
Aldehyde acetique (French)
Aldeide acetica (Italian)
Ethanal

CAS #: 75-07-0
RTECS # AB1925000
CI#: Not available

Recommended use of the chemical and restrictions on use

Recommended use: No information available.
Uses advised against No information available

Supplier: Spectrum Chemical Mfg. Corp
14422 South San Pedro St.
Gardena, CA 90248
(310) 516-8000.

Order Online At: <https://www.spectrumchemical.com>

Emergency telephone number Chemtrec 1-800-424-9300

Contact Person: Martin LaBenz (West Coast)

Contact Person: Ibad Tirmiz (East Coast)

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous according to the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Considered a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Acute toxicity - Oral	Category 4
Acute toxicity - Inhalation (Gases)	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Skin sensitization	Category 1
Carcinogenicity	Category 2
Specific target organ toxicity (single exposure)	Category 3
Flammable liquids	Category 1

Label elements

Product code: A1002

Product name: ACETALDEHYDE,
REAGENT

1 / 13

Danger

Hazard statements

Harmful if swallowed
Harmful if inhaled
Causes skin irritation
Causes serious eye irritation
May cause an allergic skin reaction
Suspected of causing cancer
May cause respiratory irritation
Extremely flammable liquid and vapor



Hazards not otherwise classified (HNOC)

Not Applicable

Other hazards

May be harmful in contact with skin
Forms explosive peroxides on exposure to air, heat or sunlight
May polymerize exothermically

Precautionary Statements - Prevention

Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Use personal protective equipment as required
Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Avoid breathing dust/fume/gas/mist/vapors/spray
Use only outdoors or in a well-ventilated area
Contaminated work clothing must not be allowed out of the workplace
Keep away from heat/sparks/open flames/hot surfaces. — No smoking
Keep container tightly closed
Ground/bond container and receiving equipment
Use explosion-proof electrical/ventilating/lighting/.../equipment
Use only non-sparking tools
Take precautionary measures against static discharge
Keep cool
Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response

In case of fire: Use CO₂, dry chemical, or foam to extinguish.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
If skin irritation or rash occurs: Get medical advice/attention
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
Wash contaminated clothing before reuse
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
Rinse mouth

Precautionary Statements - Storage

Store locked up
Store in a well-ventilated place. Keep container tightly closed

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight %
Acetaldehyde	75-07-0	100

4. FIRST AID MEASURES**First aid measures**

General Advice:	National Capital Poison Center in the United States can provide assistance if you have a poison emergency and need to talk to a poison specialist. Call 1-800-222-1222. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. First aider needs to protect himself.
Skin Contact:	Wash off immediately with soap and plenty of water removing all contaminated clothing and shoes. Get medical attention. If skin irritation persists, call a physician.
Eye Contact:	Flush eyes with water for 15 minutes. Get medical attention.
Inhalation:	Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Immediate medical attention is required.
Ingestion:	Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Obtain medical attention.

Most important symptoms and effects, both acute and delayed

Symptoms	Causes serious eye irritation. Moderately irritating to the eyes. Superficial corneal injuries which heal rapidly. Causes skin irritation. Mild to moderate skin irritation. Irritating to respiratory system. May cause pulmonary edema. Dyspnea (Difficulty breathing and shortness of breath). Central nervous system effects. Lightheadedness. Fainting. Headache. Dizziness. Somnolence. Narcosis. Respiratory depression. May affect the liver. It may affect the kidneys. May cause an allergic skin reaction.
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Indication of any immediate medical attention and special treatment needed

Notes to Physician:	Patients with a potential ingestion or inhalation exposure to acetonitrile or products containing acetonitrile should be admitted to an intensive care unit for at least 24 to 48 hours of observation for the development of cyanide poisoning. Toxicity may be prolonged. Clinical deterioration has been reported as long as 3 days following the initial response to the antidote treatment. Antidote: Always have a cyanide antidote kit on hand when working with Acetonitrile or other cyanide compounds. Get medical advice on how to use it and when it should be used.
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Protection of first-aiders

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.

5. FIRE-FIGHTING MEASURES**Extinguishing Media**

Suitable Extinguishing Media:	Carbon dioxide (CO ₂). Dry chemical. Alcohol-resistant foam. Water spray.
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Unsuitable Extinguishing Media:	Do not use a solid (straight) water stream as it may scatter
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Product code: A1002

Product name: ACETALDEHYDE,
REAGENT

3 / 13

and spread fire.

Specific hazards arising from the chemical

Hazardous Combustion Products:

Carbon Dioxide, Carbon Monoxide.

Specific hazards:

Extremely flammable. May be ignited by heat, sparks or flames. Container explosion may occur under fire conditions or when heated. Vapor may travel considerable distance to source of ignition and flash back. Vapors may form explosive mixtures with air. Most vapors are heavier than air. They will spread along the ground and collect in low or confined areas (sewers, basements, tanks). Fire may produce irritating, corrosive and/or toxic gases.

Special Protective Actions for Firefighters

Specific Methods:

Water mist may be used to cool closed containers. For larger fires, use water spray or fog. Cool containers with flooding quantities of water until well after fire is out.

Special Protective Equipment for Firefighters:

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions:

Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid contact with skin, eyes and clothing. Use personal protective equipment. Remove all sources of ignition. Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use spark-proof tools and explosion-proof equipment. In case of large spill, water spray or vapor suppressing foam may be used to reduce vapors, but may not prevent ignition in closed spaces.

Environmental precautions

Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. Prevent entry into waterways, sewers, basements or confined areas.

Methods and material for containment and cleaning up

Methods for containment

Stop leak if you can do it without risk. Absorb spill with inert material (e.g. vermiculite, dry sand or earth). In case of large spill, dike if needed. Dike far ahead of liquid spill for later disposal.

Methods for cleaning up

Use appropriate tools to put the spilled material in a suitable chemical waste disposal container. Use only non-sparking tools. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

Technical Measures/Precautions:

Provide sufficient air exchange and/or exhaust in work rooms. Remove all sources of ignition. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Keep away from incompatible materials.

Safe Handling Advice

Wear personal protective equipment. Use only in well-ventilated areas. Avoid contact with skin, eyes and clothing. Keep away from heat and sources of ignition. Do not breathe vapors or spray mist. Do not ingest. When using do not smoke. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Technical Measures/Storage Conditions:

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep refrigerated. Keep at temperatures between 2 and 8 °C. Store in a segregated and approved area. Store away from incompatible materials.

Incompatible Materials:

Oxidizing agents
Strong bases
Acids
Alcohols
Amines
Ammonia
Ketones
Phenols
Halogens

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

United States

Components	CAS-No.	OSHA	NIOSH	ACGIH	AIHA WHEEL
Acetaldehyde	75-07-0	200 ppm TWA 360 mg/m ³ TWA	None	= 25 ppm Ceiling	None

Canada

Components	CAS-No.	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
Acetaldehyde	75-07-0	= 25 ppm Ceiling = 45 mg/m ³ Ceiling	= 25 ppm Ceiling	25 ppm Ceiling	25 ppm Ceiling 45 mg/m ³ Ceiling

Australia and Mexico

Components	CAS-No.	Australia	Mexico
Acetaldehyde	75-07-0	91 mg/m ³ STEL 50 ppm STEL 20 ppm TWA 36 mg/m ³ TWA	= 25 ppm Peak = 45 mg/m ³ Peak

Appropriate engineering controls

Engineering measures to reduce exposure:

Ensure adequate ventilation. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors and mist below their respective threshold limit value.

Individual protection measures, such as personal protective equipment

Personal Protective Equipment

Product code: A1002

Product name: ACETALDEHYDE,
REAGENT

5 / 13

Eye protection:	Goggles
Skin and body protection:	Chemical resistant apron. Long sleeved clothing. Gloves.
Respiratory protection:	Vapor respirator. Be sure to use an approved/certified respirator or equivalent.
Hygiene measures:	Avoid contact with skin, eyes and clothing. When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid	Appearance: No information available.	Color: Clear. Colorless.
Odor: Pungent. Fruity.	Taste Tart.	Formula: C2H4O
Molecular/Formula weight: 44.05	Flammability: Extremely flammable	Flashpoint (°C/°F): -39 to -38 °C/-38.2 to -36.4 °F -40 °C/-40 °F
Flash Point Tested according to: Closed cup Open cup	Autoignition Temperature (°C/°F): 175-185 °C/347-365 °F	Lower Explosion Limit (%): 4%
Upper Explosion Limit (%): 55-60%	Melting point/range(°C/°F): -123.5 °C/-190.3 °F	Decomposition temperature(°C/°F): No information available
Boiling point/range(°C/°F): 21 °C/69.8 °F	Bulk density: No information available	Density (g/cm3): No information available
Specific gravity: 0.78	pH: No information available	Vapor pressure @ 20°C (kPa): 101
Evaporation rate: No information available	Vapor density: 1.52	VOC content (g/L): 780
Odor threshold (ppm): 0.21	Partition coefficient (n-octanol/water): log Kow = -0.34	Viscosity: No information available
Miscibility: Miscible with water Miscible with Ethanol Miscible with Ether Miscible with Benzene	Solubility: Soluble in Water	

10. STABILITY AND REACTIVITY

Reactivity

Reacts with oxidizing materials, halogens, amines, strong alkalies (bases), and acids, cobalt acetate, phenols, ketones, ammonia, hydrogen cyanide, hydrogen sulfide, hydrogen peroxide, mercury (II) salts (chlorate or perchlorate), acid anhydrides, alcohols, iodine, isocyanates, phosphorus, phosphorus isocyanate, tris(2-chlorobutyl)amine. It can slowly polymerize to paraldehyde. Polymerization may occur in presence of acid traces causing exothermic reaction, increased vessel pressure, fire, and explosion. Impure material polymerizes readily in presence of traces of metals (iron) or acids. Acetaldehyde is polymerized violently by concentrated sulfuric acid. Acetaldehyde can dissolve rubber

Chemical stability

Stability: Stable under recommended storage conditions.

Product code: A1002

Product name: ACETALDEHYDE,
REAGENT

6 / 13

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

Conditions to avoid: Heat. Ignition sources. Incompatible materials. Exposure to moisture. Exposure to water.

Incompatible Materials: Oxidizing agents
Strong bases
Acids
Alcohols
Amines
Ammonia
Ketones
Phenols
Halogens

Hazardous decomposition products: Carbon monoxide. Carbon dioxide.

Other Information

Corrosivity: No information available

Special Remarks on Corrosivity: No information available

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Principal Routes of Exposure:

Ingestion. Inhalation.

Acute Toxicity

Component Information

Acetaldehyde	
CAS-No.	75-07-0

LD50/oral/rat = 660 mg/kg Oral LD50 Rat
LD50/oral/mouse = 900 mg/kg
LD50/dermal/rabbit = No information available
LD50/dermal/rat = No information available
LC50/inhalation/rat = 13300 ppm Inhalation LC50 Rat 4 h
LC50/inhalation/mouse = 23000 mg/m³ 4hr.
Other LD50 or LC50 information = No information available

Product Information

LD50/oral/rat =
VALUE- Acute Tox Oral = 660 mg/kg

LD50/oral/mouse =
Value - Acute Tox Oral = 900 mg/kg

LD50/dermal/rabbit
VALUE-Acute Tox Dermal = No information available

LD50/dermal/rat

Product code: A1002

Product name: ACETALDEHYDE,
REAGENT

VALUE -Acute Tox Dermal = No information available

LC50/inhalation/rat

VALUE-Vapor = 13300 ppm (4-hr)

VALUE-Gas = No information available

VALUE-Dust/Mist = No information available

LC50/Inhalation/mouse

VALUE-Vapor = No information available

VALUE - Gas = No information available

VALUE - Dust/Mist = 23000 mg/m³ 4hr.

Symptoms

Skin Contact: Causes skin irritation. Mildly to moderately irritating to the skin.

Eye Contact: Causes serious eye irritation. Causes moderate to severe eye irritation. A splash in the eyes produces painful but superficial corneal injuries which heal rapidly.

Inhalation Harmful by inhalation. Irritating to respiratory system. Can cause lung irritation and coughing. It may cause pulmonary edema. May cause dyspnea (difficulty breathing or shortness of breath). Inhalation of high concentrations may cause central nervous system effects characterized by headache, dizziness, lightheadedness, fainting, unconsciousness, coma. May affect behavior/central nervous system (excitement). May cause fainting (passing out). May affect behavior/central nervous system (somnolence). It may affect behavior/central nervous system (ataxia, general anesthetic, drowsiness). May affect behavior/central nervous system (narcosis). It may affect respiration (respiratory depression, respiratory paralysis). May cause cardiovascular system effects.

Ingestion Harmful if swallowed. May affect behavior/central nervous system (general anesthetic). May affect liver.

Aspiration hazard No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic Toxicity Chronic exposure may affect the liver and kidneys. Prolonged or repeated ingestion may affect the liver. Skin: Sensitizer. May cause allergic skin reaction (allergic contact dermatitis).

Sensitization: May cause sensitization by skin contact.

Mutagenic Effects: Mutations in microorganisms
Experiments with bacteria and/or yeast have shown mutagenic effects
Mutagenic effects in mammalian somatic cells
Sister Chromatid Exchange: Hamster ovary (RTECS)
Sister Chromatid Exchange (human lymphocyte)

Carcinogenic effects: Suspected of causing cancer.

Components	CAS-No.	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
Acetaldehyde	75-07-0	Group 1 - Carcinogenic to Humans - Monograph	A2 - Suspected Human Carcinogen	Reasonably Anticipated To Be A Human Carcinogen	Present	Not listed	Not listed

		100E [2012] associated with consumption of alcoholic beverages Group 2B - Possibly Carcinogenic to Humans - Monograph 71 [1999] Supplement 7 [1987] Monograph 36 [1985]					
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ACGIH (American Conference of Governmental Industrial Hygienists)

IARC (International Agency for Research on Cancer)

NTP (National Toxicology Program)

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

Reproductive toxicity

No data is available

Reproductive Effects:

No information available

Developmental Effects:

No information available

Teratogenic Effects:

No information available

Specific Target Organ Toxicity

STOT - single exposure

Respiratory system.

STOT - repeated exposure

No information available.

Target Organs:

No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects:

Aquatic environment.

Acetaldehyde - 75-07-0

Freshwater Algae Data:

237 - 249 mg/L EC50 Nitzschia linearis 120 h

Freshwater Fish Species Data:

1.8-2.4 mg/L LC50 Oncorhynchus mykiss 96 h static 1

28.0-34.0 mg/L LC50 Pimephales promelas 96 h flow-through 1

39.8-46.8 mg/L LC50 Pimephales promelas 96 h static 1

53 mg/L LC50 Lepomis macrochirus 96 h static 1

Water Flea Data:

3.64 - 6.15 mg/L EC50 Daphnia magna 48 h

48.3 mg/L EC50 Daphnia magna 48 h

Persistence and degradability:

No information available

Bioaccumulative potential:

No information available.

Mobility:

No information available.

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Waste from residues / unused products:

Waste must be disposed of in accordance with Federal, State and Local regulation.

Contaminated packaging:

Empty containers should be taken for local recycling, recovery or waste disposal

Components	CAS-No.	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Acetaldehyde	75-07-0	None	None	None	U001 Ignitable waste

14. TRANSPORT INFORMATION**DOT**

UN-No: UN1089
Proper Shipping Name: Acetaldehyde
Hazard Class: 3
Subsidiary Class No information available
Packing group: I
Emergency Response Guide Number 129
Marine Pollutant No data available
DOT RQ (lbs): 1000 lbs./454 kg
forbidden for transport by passenger aircraft/rail
quantity limitation for cargo aircraft is 30 L
Special Provisions A3, B16, T11, TP2, TP7
Symbol(s): No information available
Description: UN1089, Acetaldehyde, 3, I

TDG (Canada)

UN-No: Not Regulated
Proper Shipping Name: No information available
Hazard Class: No information available
Subsidiary Risk: No information available
Packing Group: No information available
Marine Pollutant No Information available
Description: Forbidden

ADR

UN-No: UN1089
Proper Shipping Name: Acetaldehyde
Hazard Class: 3
Packing Group: I
Subsidiary Risk: No information available
Description: UN1089, Acetaldehyde, 3, I

IMO / IMDG

UN-No: UN1089
Proper Shipping Name: Acetaldehyde
Hazard Class: 3
Subsidiary Risk: No information available
Packing Group: I
Marine Pollutant No information available
EMS: F-E
Description UN1089, Acetaldehyde, 3, I

RID

UN-No: UN1089
Proper Shipping Name: Acetaldehyde

Hazard Class: 3
Subsidiary Risk: No information available
Packing Group: I
Description: UN1089, Acetaldehyde, 3, I

ICAO

UN-No: UN1089
Proper Shipping Name: Acetaldehyde
Hazard Class: 3
Subsidiary Risk: No information available
Packing Group: I
Description: UN1089, Acetaldehyde, 3, I
Special Provisions A1
 Forbidden for transport by passenger aircraft; Quantity limitation for cargo aircraft = 30 L

IATA

UN-No: UN1089
Proper Shipping Name: Acetaldehyde
Hazard Class: 3
Subsidiary Risk: No information available
Packing Group: I
ERG Code: 3H
Special Provisions Forbidden for transport by passenger aircraft; Quantity limitation for cargo aircraft = 30 L
Description: UN1089, Acetaldehyde, 3, I

15. REGULATORY INFORMATION

International Inventories

Components	CAS-No.	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
Acetaldehyde	75-07-0	Present T	Present KE-00003	Present	Present (2)-485	Present	Present	Present 200-836-8

U.S. Regulations

Acetaldehyde

Massachusetts RTK: Present
New Jersey RTK Hazardous Substance List: 0001
New Jersey (EHS) List: 0001 500 lb TPQ
New Jersey - Discharge Prevention - List of Hazardous Substances: Present
New Jersey TCPA - EHS: =4900lbTQ
Pennsylvania RTK: Environmental hazard
Pennsylvania RTK - Environmental Hazard List Present
Pennsylvania RTK - Special Hazardous Substances Present
Minnesota - Hazardous Substance List: Present
New York Release Reporting - List of Hazardous Substances:
 = 1 lb RQ
Louisiana Reportable Quantity List for Pollutants: Listed
California Directors List of Hazardous Substances: Present
FDA - Food Additives Generally Recognized as Safe (GRAS): 21 CFR 182.60
FDA - 21 CFR - Total Food Additives 177.2410 182.60

California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

Chemicals Known to the State of California to Cause Cancer:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Chemicals Known to the State of California to Cause Reproductive Toxicity:

Product code: A1002

Product name: ACETALDEHYDE,
REAGENT

11 / 13

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Components	CAS-No.	Carcinogen	Developmental Toxicity	Male Reproductive Toxicity	Female Reproductive Toxicity:
Acetaldehyde	75-07-0	carcinogen	Not Listed	Not Listed	Not Listed

CERCLA/SARA

Components	CAS-No.	CERCLA - Hazardous Substances and their Reportable Quantities	Section 302 Extremely Hazardous Substances and TPQs	Section 302 Extremely Hazardous Substances and RQs	Section 313 - Chemical Category	Section 313 - Reporting de minimis
Acetaldehyde	75-07-0	= 1000 lb final RQ = 454 kg final RQ	None	None	None	0.1 % de minimis concentration

U.S. TSCA

Components	CAS-No.	TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
Acetaldehyde	75-07-0	Not Applicable	09/30/199106/30/1998

Canada

WHMIS hazard class:

B2 Flammable liquid
D2A Very toxic materials

Components

Acetaldehyde

WHIMHAZ

B2 D2A

Canada Controlled Products Regulation:

This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

Components	WHMIS Ingredient Disclosure List -
Acetaldehyde	1 %

Inventory

Components	CAS-No.	Canada (DSL)	Canada (NDSL)
Acetaldehyde	75-07-0	Present	Not Listed

Components	CAS-No.	CEPA Schedule I - Toxic Substances
Acetaldehyde	75-07-0	Present
Components	CAS-No.	CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting
Acetaldehyde	75-07-0	Not listed

EU Classification

R-phrase(s)

R12 - Extremely flammable.
R40 - Limited evidence of a carcinogenic effect
R36/37 - Irritating to eyes and respiratory system.

S -phrase(s)

S 2 - Keep out of the reach of children.
S16 - Keep away from sources of ignition - No smoking.
S33 - Take precautionary measures against static discharges.
S36/37 - Wear suitable protective clothing and gloves.

Components	CAS-No.	Classification	Concentration	Safety Phrases
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Product code: A1002

Product name: ACETALDEHYDE,
REAGENT

12 / 13

			Limits:	
Acetaldehyde	75-07-0	F+; R12 Xi; R36/37 Carc.Cat.3; R40	No information	S2 S16 S33 S36/37

The product is classified in accordance with Annex VI to Directive 67/548/EEC

Indication of danger:

F+ - Extremely flammable.

Xn - Harmful.

Xi - Irritant.

Xn



Xi



F+



16. OTHER INFORMATION

Preparation Date: 1/19/2017
Revision Date: 1/19/2017
Prepared by: Sonia Owen

Disclaimer:

All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

End of Safety Data Sheet