Material Safety Data Sheet

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Version 1.2
According to 91/155/EEC

Classified as Hazardous according to the criteria of EU Annex 1 and NOHSC.

1 - Product and Company Information

Product Name ACETONE, ALDRASORB
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2 - Composition/Information on Ingredients

Product 1	Name			CAS #	EC no	Annex I
						Index Number
ACETONE.	WTTH	MOLECULAR	STEVE	67-64-1	200-662-2	606-001-00-8

Formula C3H6O Molecular Weight 58.08 AMU

Synonyms Aceton (German, Dutch, Polish) * Acetone

(ACGIH:OSHA) * Chevron acetone *

Dimethylformaldehyde * Dimethylketal * Dimethyl ketone * Ketone, dimethyl * Ketone propane * beta-Ketopropane * Methyl ketone * Propanone * 2-Propanone * Pyroacetic acid * Pyroacetic ether

* RCRA waste number U002

3 - Hazards Identification

SPECIAL INDICATION OF HAZARDS TO HUMANS AND THE ENVIRONMENT Highly flammable. Irritating to eyes. Repeated exposure may cause skin dryness or cracking. Vapors may cause drowsiness and dizziness.

4 - First Aid Measures

AFTER INHALATION

If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

AFTER SKIN CONTACT

In case of contact, immediately wash skin with soap and copious amounts of water.

AFTER EYE CONTACT

In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes.

AFTER INGESTION

If swallowed, wash out mouth with water provided person is conscious. Call a physician.

5 - Fire Fighting Measures

EXTINGUISHING MEDIA

Suitable: Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

Unsuitable: Water may be effective for cooling, but may not effect extinguishment.

SPECIAL RISKS

Specific Hazard(s): Flammable liquid. Emits toxic fumes under fire conditions.

Explosion Hazards: Vapor may travel considerable distance to source of ignition and flash back. Container explosion may occur under fire conditions.

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

6 - Accidental Release Measures

PERSONAL PRECAUTION PROCEDURES TO BE FOLLOWED IN CASE OF LEAK OR SPILL Evacuate area. Shut off all sources of ignition.

PROCEDURE(S) OF PERSONAL PRECAUTION(S)

Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves.

METHODS FOR CLEANING UP

Cover with dry-lime, sand, or soda ash. Place in covered containers using non-sparking tools and transport outdoors. Ventilate area and wash spill site after material pickup is complete.

7 - Handling and Storage

HANDLING

Directions for Safe Handling: Avoid breathing vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

STORAGE

Conditions of Storage: Keep container closed. Keep away from heat, sparks, and open flame. Store in a cool dry place. This product contains a molecular trap to maintain low moisture levels in the solvent.

SPECIAL REQUIREMENTS: Moisture sensitive.

8 - Exposure Controls / Personal Protection

ENGINEERING CONTROLS

Safety shower and eye bath. Use nonsparking tools. Mechanical exhaust required.

GENERAL HYGIENE MEASURES

Wash thoroughly after handling. Wash contaminated clothing before

reuse.

EXPOSURE LIMITS - EUROPEAN UNION

Source Type Value

OEL OEL 1,210 mg/m3

500 ppm

EXPOSURE LIMITS - DENMARK

Source Value Type OEL 600 mg/mTWA

250 ppm

EXPOSURE LIMITS - GERMANY

Value Source Type

TRGS 900 1,200 mg/m3OEL

500 ppm

Remarks: 4

EXPOSURE LIMITS - NORWAY

Source Type Value 295 mg/m3 OEL

125 ppm

EXPOSURE LIMITS - SWEDEN

Source Type Value

> LLV (Level600 mg/m3 250 ppm

EXPOSURE LIMITS - SWITZERLAND

Value Source Type

OEL 1,200 mg/m3OEL

500 ppm

Remarks: M

EXPOSURE LIMITS - UNITED KINGDOM

Source Value Type

OEL 1,810 mg/m3OEL 750 ppm

OEL STEL 3,620 mg/m3

1,500 ppm

PERSONAL PROTECTIVE EQUIPMENT

Respiratory Protection: Government approved respirator.

Hand Protection: Compatible chemical-resistant gloves.

Eye Protection: Chemical safety goggles.

9 - Physical and Chemical Properties

Physical State: Clear liquid Appearance

Color: Colorless

Property Value At Temperature or Pressure

N/AрН

56 °C BP/BP Range 760 mmHg

-94 °C MP/MP Range

Flash Point -17 °C Method: closed cup

Flammability N/A465 °C Autoignition Temp Oxidizing Properties N/A Explosive Properties N/A

Explosion Limits Lower: 2 %

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Upper: 13 %
                                              20 °C
                         184 mmHg
Vapor Pressure
SG/Density
                         0.79 \, \text{g/cm}3
Partition Coefficient
                        N/A
Viscosity
                         N/A
Vapor Density
                         2 \, q/1
Saturated Vapor Conc.
                        N/A
Evaporation Rate
                        N/A
Bulk Density
                         N/A
Decomposition Temp.
                        N/A
Solvent Content
                        N/A
Water Content
                        N/A
Surface Tension
                        N/A
Conductivity
                         N/A
Miscellaneous Data
                        N/A
Solubility
                         N/A
10 - Stability and Reactivity
STABILITY
   Stable: Stable.
   Materials to Avoid: Bases, Oxidizing agents, Reducing agents.
HAZARDOUS DECOMPOSITION PRODUCTS
   Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide.
HAZARDOUS POLYMERIZATION
   Hazardous Polymerization: Will not occur
11 - Toxicological Information
RTECS NUMBER: AL3150000
ACUTE TOXICITY
   LD50
   Oral
   Rat
   5800 mg/kg
   Remarks: Behavioral: Altered sleep time (including change in
   righting reflex). Behavioral: Tremor.
   LC50
   Inhalation
   Rat
   50,100 \text{ mg/m}
   8H
   LD50
   Intravenous
   5500 MG/KG
   LD50
   Oral
   Mouse
   3000 mg/kg
   LC50
   Inhalation
   Mouse
   44,000 mg/m3
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Skin Absorption: May be harmful if absorbed through the skin.

Eye Contact: Causes eye irritation.

Inhalation: May be harmful if inhaled. Material may be irritating to mucous membranes and upper respiratory tract.

Ingestion: May be harmful if swallowed.

TARGET ORGAN INFORMATION

Liver. Kidneys.

CHRONIC EXPOSURE - CARCINOGEN

Result: This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

CHRONIC EXPOSURE - MUTAGEN

Hamster 40 GM/L

Cell Type: fibroblast Cytogenetic analysis

CHRONIC EXPOSURE - REPRODUCTIVE HAZARD

Species: Rat Dose: 273 GM/KG

Route of Application: Oral Exposure Time: (13W MALE)

Result: Paternal Effects: Spermatogenesis (including genetic

material, sperm morphology, motility, and count).

Species: Mammal

Dose: 31500 UG/M3/24H

Route of Application: Inhalation Exposure Time: (1-13D PREG)

Result: Effects on Fertility: Post-implantation mortality (e.g., dead and/or resorbed implants per total number of implants).

12 - Ecological Information

No data available.

13 - Disposal Considerations

SUBSTANCE DISPOSAL

Contact a licensed professional waste disposal service to dispose of this material. Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Observe all federal, state, and local environmental regulations.

14 - Transport Information

RID/ADR

UN#: 1090 Class: 3 PG: II

Proper Shipping Name: Acetone

IMDG

UN#: 1090 Class: 3 PG: II

Proper Shipping Name: Acetone

Marine Pollutant: No

Severe Marine Pollutant: No

IATA

UN#: 1090 Class: 3 PG: II

15 - Regulatory Information

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CLASSIFICATION AND LABELING ACCORDING TO EU DIRECTIVES
   ANNEX I INDEX NUMBER: 606-001-00-8
   NOTA: 6
   INDICATION OF DANGER: F Xi
     Highly Flammable. Irritant.
   R-PHRASES: 11 36 66 67
     Highly flammable. Irritating to eyes. Repeated exposure may
     cause skin dryness or cracking. Vapors may cause drowsiness and
     dizziness.
   S-PHRASES: 9 16 26
     Keep container in a well-ventilated place. Keep away from
     sources of ignition - no smoking. In case of contact with eyes,
     rinse immediately with plenty of water and seek medical advice.
COUNTRY SPECIFIC INFORMATION
Germany
   WGK: 1
SWITZERLAND
   SWISS POISON CLASS: 5
NORWAY
   Labelling for organic solvents where the package is 1liter or
   YL-tall m3/1: 3749
   YL-group: 5
   Risk phrases: 20
     Harmful by inhalation.
   Safety phrases: 38 42 210
     In case of insufficient ventilation, wear suitable respiratory
     equipment. During fumigation/spraying wear suitable respiratory
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16 - Other Information

apparatus in confined spaces.

WARRANTY

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Inc., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. Copyright 2004 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.

equipment. Use compressed air- or fresh air line breathing

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