

# CHEMIX ENVIRONMENTAL LTD

## SAFETY DATA SHEET

ACETONE

Compilation date: 16/09/2009

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Revision No: 5

### Section 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

**Product name:** ACETONE

**REACH registered number(s):** 01-2119471330-49

**CAS number:** 67-64-1

**EINECS number:** 200-662-2

**Synonyms:** PROPANONE

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Use of substance / mixture:** Manufacture of substance. Distribution of substance. Uses in coatings. Laboratories. use of release agents and binders. Rubber Production and processing. Polymer Processing. Use in cleaning agents. Use in oil and gas field drilling and production operations. Mining chemicals. Blowing Agents This product is not recommended for any industrial, professional or consumer use other than the identified Uses above.

#### 1.3. Details of the supplier of the safety data sheet

**Company name:** Chemix Environmental Ltd  
Unit D  
Charnock Road  
Aintree  
Liverpool  
L9 7ET

**Tel:** 01942 826999

**Fax:** 01942 243418

**Email:** chemix1@hotmail.co.uk

#### 1.4. Emergency telephone number

**Emergency tel:** 01942 826999 (Office Hours Only)

### Section 2: Hazards identification

#### 2.1. Classification of the substance or mixture

**Classification under CLP:** STOT SE 3: H336; Eye Irrit. 2: H319; Flam. Liq. 2: H225; -: EUH066

**Most important adverse effects:** Highly flammable. Irritating to eyes. Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness.

# CHEMIX ENVIRONMENTAL LTD

## SAFETY DATA SHEET

ACETONE

### 2.2. Label elements

#### Label elements under CLP:

**Hazard statements:** H225: Highly flammable liquid and vapour.  
H319: Causes serious eye irritation.  
H336: May cause drowsiness or dizziness.  
EUH066: Repeated exposure may cause skin dryness or cracking.

**Signal words:** Danger

**Hazard pictograms:** GHS02: Flame  
GHS07: Exclamation mark



**Precautionary statements:** P210: Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.  
P303+361+353: IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water/shower.  
P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P501: Dispose of contents/container to in accordance with local/regional/national regulations.

### 2.3. Other hazards

**Other hazards:** In use, may form flammable / explosive vapour-air mixture.

**PBT:** This substance is not identified as a PBT substance.

## Section 3: Composition/information on ingredients

### 3.1. Substances

**Chemical identity:** ACETONE

## Section 4: First aid measures

### 4.1. Description of first aid measures

**Skin contact:** Remove affected person from from source of contamination. Drench the skin with plenty of water. Remove contaminated clothing and wash before reuse. If large areas of the skin is affected or if irritation persists, seek medical advice. Continue washing skin for at least 20 minutes.

**Eye contact:** Immediately flood the eye with plenty of water for at least 15 minutes, holding the eye open. Remove any contact lenses and open eyes wide apart. Get medical attention if any discomfort continues

# CHEMIX ENVIRONMENTAL LTD

## SAFETY DATA SHEET

ACETONE

**Ingestion:** Rinse mouth thoroughly. Get medical attention immediately. Keep warm and at rest. If there is difficulty in breathing give oxygen. If breathing stops or shows signs of failing, apply artificial respiration.

**Inhalation:** Remove from exposure, rest and keep warm. In severe cases, or if recovery is not rapid or complete, seek medical advice.

### 4.2. Most important symptoms and effects, both acute and delayed

**Skin contact:** There may be irritation and redness at the site of contact.

**Eye contact:** There may be irritation and redness. The eyes may water profusely.

**Ingestion:** There may be soreness and redness of the mouth and throat.

**Inhalation:** There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing.

### 4.3. Indication of any immediate medical attention and special treatment needed

## Section 5: Fire-fighting measures

### 5.1. Extinguishing media

**Extinguishing media:** Alcohol resistant foam. Water spray. Carbon dioxide. Dry chemical powder. Use water spray to cool containers. DO NOT USE WATER JETS.

### 5.2. Special hazards arising from the substance or mixture

**Exposure hazards:** Highly flammable. In combustion emits oxides of carbon. Forms explosive air-vapour mixture. Vapour may travel considerable distance to source of ignition and flash back.

### 5.3. Advice for fire-fighters

**Advice for fire-fighters:** In case of fire, wear self-contained breathing apparatus. Water may be ineffective but use to keep fire-exposed containers cool. Keep run-off water out of sewers and water sources. Use water to keep fire exposed containers cool and disperse vapours. Avoid water in straight hose stream, will scatter and spread fire.

## Section 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

**Personal precautions:** Refer to section 8 of SDS for personal protection details. If outside do not approach from downwind. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Turn leaking containers leak-side up to prevent the escape of liquid. Eliminate all sources of ignition.

### 6.2. Environmental precautions

**Environmental precautions:** Do not discharge into drains or rivers. Contain the spillage using bunding.

### 6.3. Methods and material for containment and cleaning up

# CHEMIX ENVIRONMENTAL LTD

## SAFETY DATA SHEET

ACETONE

**Clean-up procedures:** Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method. Do not use equipment in clean-up procedure which may produce sparks.

### 6.4. Reference to other sections

## Section 7: Handling and storage

### 7.1. Precautions for safe handling

**Handling requirements:** Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of mists in the air. Smoking is forbidden. Use non-sparking tools.

### 7.2. Conditions for safe storage, including any incompatibilities

**Storage conditions:** Store in cool, well ventilated area. Keep container tightly closed. Keep away from sources of ignition. Prevent the build up of electrostatic charge in the immediate area. Ensure lighting and electrical equipment are not a source of ignition.

**Suitable packaging:** Original container stored in a dry and cool place.

### 7.3. Specific end use(s)

## Section 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Workplace exposure limits:

#### Respirable dust

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	1210 mg/m <sup>3</sup>	3620 mg/m <sup>3</sup>	-	-

### 8.2. Exposure controls

**Engineering measures:** Ensure there is sufficient ventilation of the area. Ensure lighting and electrical equipment are not a source of ignition.

**Respiratory protection:** Self-contained breathing apparatus must be available in case of emergency.

**Hand protection:** butyl rubber gloves. Use gloves with long sleeves.

**Eye protection:** If risk of splashing, wear safety goggles or face shield. Eyewash bottle with clean water.

**Skin protection:** Solvent resistant protective clothing.

# CHEMIX ENVIRONMENTAL LTD

## SAFETY DATA SHEET

ACETONE

### Section 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

**State:** Liquid

**Colour:** Colourless

**Odour:** Pungent

**Evaporation rate:** Moderate

**Oxidising:** Non-oxidising (by EC criteria)

**Solubility in water:** Highly soluble

**Also soluble in:** Most organic solvents.

**Viscosity:** Non-viscous

**Boiling point/range°C:** 56-58

**Melting point/range°C:** -95

**Flammability limits %: lower:** 2.60

**upper:** 13.0

**Flash point°C:** -18

**Part.coeff. n-octanol/water:** 0.24@20°C

**Autoflammability°C:** 465

**Vapour pressure:** 24.70kPa@20C

**Relative density:** 0.793

**pH:** 5-6

#### 9.2. Other information

**Other information:** Not applicable.

### Section 10: Stability and reactivity

#### 10.1. Reactivity

**Reactivity:** Reacts in presence of bases.

#### 10.2. Chemical stability

**Chemical stability:** Stable under normal conditions. Stable at room temperature.

#### 10.3. Possibility of hazardous reactions

**Hazardous reactions:** No hazardous reactions known.

#### 10.4. Conditions to avoid

**Conditions to avoid:** Heat. Hot surfaces. Sources of ignition. Flames. Static discharge.

#### 10.5. Incompatible materials

**Materials to avoid:** Strong oxidising agents. Strong acids.

#### 10.6. Hazardous decomposition products

**Haz. decomp. products:** In combustion emits Oxides of Carbon.

# CHEMIX ENVIRONMENTAL LTD

## SAFETY DATA SHEET

ACETONE

### Section 11: Toxicological information

#### 11.1. Information on toxicological effects

Relevant hazards for substance:

Hazard	Route	Basis
Serious eye damage/irritation	OPT	Based on test data
STOT-single exposure	-	Based on test data

#### Symptoms / routes of exposure

**Skin contact:** There may be irritation and redness at the site of contact.

**Eye contact:** There may be irritation and redness. The eyes may water profusely.

**Ingestion:** There may be soreness and redness of the mouth and throat.

**Inhalation:** There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing.

### Section 12: Ecological information

#### 12.1. Toxicity

**Ecotoxicity values:** Not applicable.

#### 12.2. Persistence and degradability

**Persistence and degradability:** Product is not expected to bioaccumulate. The product is readily biodegradable in aerobic systems, using either salt water or fresh water inocula.

#### 12.3. Bioaccumulative potential

**Bioaccumulative potential:** No bioaccumulation potential.

#### 12.4. Mobility in soil

**Mobility:** Readily absorbed into soil.

#### 12.5. Results of PBT and vPvB assessment

**PBT identification:** This substance is not identified as a PBT substance.

#### 12.6. Other adverse effects

**Other adverse effects:** Negligible ecotoxicity.

# CHEMIX ENVIRONMENTAL LTD

## SAFETY DATA SHEET

ACETONE

### Section 13: Disposal considerations

#### 13.1. Waste treatment methods

**Disposal operations:** Incinerate in suitable combustion chamber. It is the responsibility of the waste generator to determine the Toxicity and physical properties of the material generated to determine the proper waste classification and disposal methods in compliance with applicable regulations.

**Recovery operations:** Use principally as a fuel or other means to generate energy.

**Waste code number:** 07 01 04

**NB:** The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

### Section 14: Transport information

#### 14.1. UN number

**UN number:** UN1090

#### 14.2. UN proper shipping name

**Shipping name:** ACETONE

#### 14.3. Transport hazard class(es)

**Transport class:** 3

#### 14.4. Packing group

**Packing group:** II

#### 14.5. Environmental hazards

**Environmentally hazardous:** No

**Marine pollutant:** No

#### 14.6. Special precautions for user

**Tunnel code:** D/E

**Transport category:** 2

### Section 15: Regulatory information

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.2. Chemical Safety Assessment

**Chemical safety assessment:** A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

### Section 16: Other information

#### Other information

# CHEMIX ENVIRONMENTAL LTD

## SAFETY DATA SHEET

ACETONE

**Other information:** Since emptied containers retain product residue, follow label warnings even after container is emptied. residual vapours may explode on ignition, do not cut, drill, grind or weld on or near this container.

**Phrases used in s.2 and 3:** EUH066: Repeated exposure may cause skin dryness or cracking.

H225: Highly flammable liquid and vapour.

H319: Causes serious eye irritation.

H336: May cause drowsiness or dizziness.

**Legal disclaimer:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above