

# SAFETY DATA SHEET

## Acetone

Revision date: 12.05.15

SDS/004/8

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### 1. Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Acetone EC No. 200-662-2

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

Household Solvent

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

Thornton & Ross Ltd, Linthwaite, Huddersfield, HD7 5QH

Tel: 01484 842217 Fax: 01484 847301 Email: [sds@thorntonross.com](mailto:sds@thorntonross.com)

#### 1.4. Emergency telephone number:

Out of normal working hours: +44 870 8510207

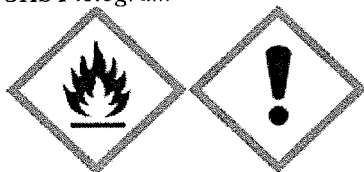
### 2. Hazards identification

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

According to Regulation EC 1272/2008 classified as Flammable Liquid Category 2, Eye Irritant Category 2, Specific Target Organ Toxicity Single Exposure Category 3.

#### 2.2. Label element

GHS Pictogram



Signal Word  
**Danger**

Hazard Class  
**Flammable Liquids, Category 2**

**Eye Irritation, Category 2**

**Specific Target Organ Toxicity-Single Exposure, Category 3**

#### Hazard Statements

H225: Highly flammable liquid and vapour.

H319: Causes serious eye irritation

H336: May cause drowsiness or dizziness

#### Precautionary statements

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

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.

P337+313: Get medical advice/attention.

P403: Store in a well ventilated place.

#### Supplemental Hazard Information (EU)

EUH066: Repeated exposure may cause skin dryness or cracking

#### 2.3. Other hazards

N/A



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#### 3. Composition/information on ingredients

##### 3.1. Substances

<i>Substance</i>	<i>CAS- No</i>	<i>Percentage %</i>
Acetone	67-64-1	>99

#### 4. First aid measures

##### 4.1. Description of first aid measures

*Eyes* –immediately flood the eye with plenty of water for at least 15 minutes and get medical attention.

*Ingested* – wash out mouth with water. Do not induce vomiting. Keep warm and at rest. Get medical attention urgently.

*Skin* – remove contaminated clothing and wash skin thoroughly with water. If irritation persists get medical advice.

*Inhalation* –Remove from exposure. Keep warm and at rest and get medical attention.

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

Causes redness and pain in the eyes. Inhalation can cause headache, dizziness or drowsiness.

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

If not sure about any symptoms contact a doctor or emergency service.

#### 5. Fire fighting measures

##### 5.1. Extinguishing media

*Suitable extinguishing media* – water spray, alcohol resistant foam, dry chemicals or carbon dioxide.

*Unsuitable extinguishing media* – Do not use water jet.

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

Combustion will generate oxides of carbon. Fire creates toxic gases/ vapours/fumes of carbon monoxide (CO) and Carbon dioxide (CO<sub>2</sub>)

##### 5.3. Advice for fire-fighters

Wear self contained breathing apparatus.

#### 6. Accidental release measures

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

Wear appropriate protective clothing (see Section 8), consider need for evacuation. Eliminate all source of ignition.



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#### 6.2. Environmental precautions

Prevent material entering drains and watercourses. Advise local authorities if spillage has entered watercourses and sewer.

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

Contain and absorb using inert material and transfer into suitable containers for recovery or disposal by a licensed waste contractor.

#### 6.4. Reference to other sections

See section 8 for protective equipment requirements.

### 7. Handling and storage

#### 7.1. Precautions for safe handling

Use in well ventilated area. Avoid inhaling vapour. Avoid contact with eyes, skin and clothing. Keep container tightly closed when not in use.

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

Storage should be cool, well ventilated away from sources of ignition or heat. Prevent accumulation of static charge. Store in original packaging.

#### 7.3. Specific end use(s)

N/A

### 8. Exposure controls/personal protection

#### 8.1. Control parameters

Long term exposure limit 500ppm (1207 mg/m<sup>3</sup>)

Short term exposure limit 1500ppm (3620 mg/m<sup>3</sup>)

#### 8.3. Exposure controls

*Engineering Controls* – Explosion proof general and local exhaust ventilation.

*Eye/face Protection* – chemical goggles or face shield

*Hand protection* – Viton rubber or PVA gloves.

*Skin protection* – overalls must be worn when handling large quantities.

*Other protection* – prevent skin contact.

*Respiratory protection* – if high vapour concentrations wear respiratory protection.



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#### 9. Physical and chemical properties

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

*Appearance* – A clear, colourless liquid

*Boiling point* – 56°C

*Odour* – Acetone, Ketone

*Flash point* – -18°C (closed cup)

*pH* – 7

*Evaporation rate* – 7.70

*Melting Point/freezing point* – (-95°C)

*Flammability* – highly flammable

*Flammability limit % (Upper)* – 13.30

*Vapour pressure* – 24.7 kPa

*Flammability limit % (lower)* – 2.15

*Vapour density (air=1)* – 2

*Relative density* – 0.79 @20 °C

*Solubility* – soluble in water

*Partition coefficient* – not available

*Auto ignition temperature* – not available

*Decomposition temperature* – not available

*Viscosity* – not available

*Explosive properties* – not available

*Oxidising properties* – not available

##### 9.2. Other information

Not available

#### 10. Stability and reactivity

##### 10.1. Reactivity

Reacts vigorously with oxidising agents.

##### 10.2. Chemical stability

Stable under normal ambient temperature conditions.

##### 10.3. Possibility of hazardous reactions

Hazardous polymerisation will not occur.

##### 10.4. Conditions to avoid

Avoid heat, flames and other sources of ignition.

##### 10.5. Incompatible materials

Strong oxidising substances. Strong acids.

##### 10.6. Hazardous decomposition products

Not known

#### 11. Toxicological information

##### 11.1. Information on toxicological effects

*Acute toxicity* – LD50 (oral rat) 9570mg/kg.

Ingestion may cause severe internal injury and stomach pain or vomiting.



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*Skin corrosion/irritation* – prolonged or repeated skin contact with the product may cause removal of natural fats from the skin, resulting in non allergic contact dermatitis and absorption through skin.

*Serious eye damage/irritation* – Irritation to eyes and may cause redness and pain.

*Respiratory or skin sensitization* – not known.

*Germ cell mutagenicity* – No component of this product at levels greater than 0.1% is classified by established regulatory criteria as a mutagen.

*Carcinogenicity* – No component of this product at levels greater than 0.1% is identified as a carcinogen by AGGIH, the International Agency for Research of Cancer (IARC) or the European Commission (EC). Classified A4 by ACGIH (Acetone).

*Reproductive toxicity* – No component of this product at levels greater than 0.1% is classified by established regulatory criteria as a reproductive toxin.

*STOT- single exposure* –vapours may cause drowsiness or dizziness. Vapours may irritate respiratory system or lungs, CNS depressant. Symptoms and signs include headache, dizziness, fatigue, muscular weakness and in extreme cases loss of consciousness.

*STOT-repeated exposure* – not known

*Aspiration hazard* – not known

#### 12. Ecological information

##### 12.1. Toxicity

The product is non toxic to aquatic organisms. LC50> 5500 mg/l 96h (fish), EC50 > 10022 mg/l (daphnia)

##### 12.2. Persistence and degradability

The product is readily biodegradable in aerobic system. BOD5 is 38-56% ThOD, BOD20 is 76-84% ThOD.

##### 12.3. Bioaccumulative potential

The product is not expected to bioaccumulate through food chains in the environment.

##### 12.4. Mobility in soil

The product is poorly absorbed onto soils or sediments.

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

Not known

##### 12.6. Other adverse effects

Not known



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#### 13. Disposal considerations

##### 13.1. Waste treatment methods

Dispose of waste and residues in accordance with local authority requirements. This material and its container must be disposed as hazardous waste.

#### 14. Transport information

##### 14.1. UN number

1090

##### 14.2. UN proper shipping name

Acetone

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

3

##### 14.4. Packing group

II

##### 14.5. Environmental hazards

None

##### 14.6. Special precautions for user

Flammable liquid.

##### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

N/A

#### 15. Regulatory information

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

Not regulated by specific legislation.

##### 15.2. Chemical Safety Assessment

Not available

#### 16. Other information

##### 16.1. Reason for change

Update to CLP.

##### 16.2. Source of information

Supplier's safety data sheet.