

Product Acetone  
 Revision Date 03/09/2015  
 Revision 1



## SECTION 1: IDENTIFICATION

### 1.1 Product identifier

**Product Name** Acetone  
**Product No.** SEC13001  
**Synonyms, Trade Names** Propanone, Dimethyl Ketone.

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

**Identifier Uses** Laboratory chemicals, Manufacture of Substances.  
**Uses advised against** No uses advised against are identified.

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

**Supplier** Solv-Echem Ireland Ltd  
 Great Island Industrial Park  
 Ballincollig  
 Cork  
 Tel: 00 353 (0)21 487 7066  
 tony@solvechem.com

**Contact Person**

### 1.4 Emergency telephone number

**Emergency Telephone** 00 353 (0)21 487 7066  
**National Emergency Telephone Number** +00353 (0)21 4877 066

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

**Classification (EC 1272/2008)**  
 Physical and Chemical Hazards Flam. Liq 2- H225  
 Human Health Eye Irrit.2A - H319, STOT SE 3 - H336,  
 Environment Not classified

### 2.2 Label elements

**Contains** acetone

**Label in Accordance With (EC) No.**  
 1272/2008



**Signal Word** Danger

**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.  
 P242 Use only non-sparking tools.  
 P280 Wear protective gloves/ protective clothing/eye protection/face protection.  
 P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/ shower  
 P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position

comfortable for breathing.  
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

### 2.3 Other Hazards

None known.

## SECTION 3: Composition/Information on Ingredients

### 3.1 Substance

Name	Product Identifier	GHS Classification	%
acetone	CAS-No.: 67-64-1 EC No.: 200-662-2	Eye Irrit.2A - H319, Flam. Liq 2- H225, STOT SE 3 - H336	60-100%

The Full Text for all Hazard Statements are Displayed in Section 16.

#### Composition Comments

The data shown are in accordance with the latest EC Directives.

## SECTION 4: FIRST AID MEASURES

### 4.1 Description of first aid measures

#### General Information

Pay attention to self-protection. Remove victim(s) from hazardous area. Immediately remove soiled or soaked clothing and remove it to a safe distance. Keep victim(s) warm, in a stabilized position and covered. Do not leave victim(s) unattended. If the casualty is unconscious: Place the victim(s) in the recovery position.

#### Inhalation

Move injured person into fresh air and keep person calm under observation. If necessary, seek hospital and bring these instructions.

#### Ingestion

Immediately rinse mouth and provide fresh air. DO NOT INDUCE VOMITING! Get medical attention immediately!

#### Skin contact

Remove contaminated clothes and rinse skin thoroughly with water.

#### Eye contact

Immediately flush with plenty of water for up to 15 minutes.

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

#### General Information

The severity of the symptoms described will vary dependant of the concentration and the length of exposure.

#### Inhalation

Irritation of nose, throat and airway. Vapours may cause headache, fatigue, dizziness and nausea.

#### Ingestion

May cause discomfort if swallowed.

#### Skin contact

Skin irritation. Prolonged contact may cause redness, irritation and dry skin.

#### Eye contact

May cause severe irritation to eyes.

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

#### Notes To The Physician

Treat Symptomatically.

## SECTION 5: Firefighting Measures

### 5.1 Extinguishing media

#### Extinguishing Media

Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.

#### Unsuitable extinguishing media

No information available

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

#### Hazardous combustion products

During fire, toxic gases (CO, CO<sub>2</sub>) are formed.

#### Unusual Fire & Explosion Hazards

Vapours may ignite.

#### Specific hazards

The product is flammable, and heating may generate vapours which may form explosive vapour/air mixtures.

**5.3 Advice for firefighters**

<b>Special Fire Fighting Procedures</b>	Keep up-wind to avoid fumes. Containers close to fire should be removed or cooled with water.
<b>Protective equipment for firefighters</b>	Self contained breathing apparatus and full protective clothing must be worn in case of fire.

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

<b>Personal Precautions</b>	Wear protective clothing as described in Section 8 of this safety data sheet. Avoid inhalation of vapours and contact with skin and eyes. Provide adequate ventilation. Do not smoke, use open fire or other sources of ignition.
-----------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

**6.2 Environmental precautions**

<b>Environmental Precautions</b>	Do not discharge into drains, water courses or onto the ground.
<b>Spill Clean Up Methods</b>	Absorb in vermiculite, dry sand or earth and place into containers. Stop leak if possible without risk. DO NOT touch spilled material! Do not contaminate water sources or sewer.

**6.4 Reference to other sections**

<b>Reference to other sections</b>	For waste disposal, see section 13.
------------------------------------	-------------------------------------

**SECTION 7: Handling and Storage****7.1 Precautions for Safe Handling**

<b>Handling</b>	Keep away from heat, sparks and open flame. Static electricity and formation of sparks must be prevented. Do not eat, drink or smoke when using the product. Storage tanks and other containers must be grounded.
-----------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

**7.2 Conditions for safe storage, including any incompatibilities**

<b>Storage Precautions</b>	Keep containers tightly closed. Keep away from heat, sparks and open flame. Store in tightly closed original container in a well-ventilated place. Store isolated from reducing agents. Avoid contact with oxidising agents. Store separate from alkalis.
<b>Storage Class</b>	Flammable liquid storage

**7.3 Specific end use(s)**

<b>Specific End Use(s)</b>	The identified uses for this product are detailed in Section 1.2.
<b>Usage Description</b>	Use only according to directions.

**SECTION 8: Exposure Controls/Personal Protection****8.1 Control Parameters**

Component	STD	TWA (8 Hrs)		STEL (15mins)		Notes
acetone	OEL	500ppm	1210mg/m3			

OEL = Occupational Exposure Limits

<b>Ingredient Comments</b>	Ireland, Occupational Exposure Limits 2011
----------------------------	--------------------------------------------

**8.2 Exposure Controls**

<b>Protective Equipment</b>	
-----------------------------	--



<b>Engineering Measures</b>	Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.
<b>Respiratory Equipment</b>	If ventilation is insufficient, suitable respiratory protection must be provided. Use respiratory equipment with gas filter, type AX.
<b>Hand Protection</b>	Protective gloves must be used if there is a risk of direct contact or splash. Protective gloves complying with EN374. The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. Butyl rubber gloves are recommended. Breakthrough time: 4h. Material thickness: 0.5 mm.
<b>Eye Protection</b>	Wear approved safety goggles. Contact lenses should not be worn when working with this chemical! Wear safety goggles in accordance with EN166. Eye protection equipment should be tested and approved according to regulations applicable, like NIOSH (US) or EN 166 (EU).
<b>Other Protection</b>	Use engineering controls to reduce air contamination to permissible exposure level.
<b>Hygiene Measures</b>	Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke. Take off immediately all contaminated clothing. Avoid contact with skin, eyes and clothing.
<b>Process Conditions</b>	Provide eyewash station. Use engineering controls to reduce air contamination to permissible exposure level.

## SECTION 9: Physical and Chemical Properties

### 9.1 Information on Basic Physical and Chemical Properties

<b>Appearance</b>	Liquid.
<b>Colour</b>	Colourless.
<b>Odour</b>	Characteristic.
<b>Odour Threshold - Lower</b>	No Information available.
<b>Odour Threshold - Upper</b>	No Information available.
<b>pH-Value, Conc. Solution</b>	No Information available.
<b>Melting point</b>	-94.7 °C
<b>Initial boiling point and boiling range</b>	55.8 - 56.6 7670 Hg
<b>Flash point</b>	18.0 °C
<b>Evaporation rate</b>	No Information available.
<b>Flammability State</b>	No Information available.
<b>Flammability Limit - Lower(%)</b>	13.0
<b>Flammability Limit - Upper(%)</b>	2.6
<b>Vapour pressure</b>	No Information available.
<b>Vapour Density (air=1)</b>	Not determined.
<b>Relative density</b>	No Information Available
<b>Bulk Density</b>	No Information available.
<b>Solubility</b>	Soluble in water.
<b>Decomposition temperature</b>	No Information available.
<b>Partition coefficient; n-octanol/water</b>	No Information available.

<b>Auto Ignition Temperature (°C)</b>	465.0 °C
<b>Viscosity</b>	No Information available.
<b>Explosive Properties</b>	No information available.
<b>Oxidising properties</b>	No Information available.

## 9.2 Other Information

<b>Molecular Weight</b>	58.0g/mol
<b>Volatile Organic Compound</b>	No Information available.

---

## SECTION 10: Stability and Reactivity

---

### 10.1 Reactivity

<b>Reactivity</b>	Reacts violently with strong oxidising substances and strong reducing agents.
-------------------	-------------------------------------------------------------------------------

### 10.2 Chemical Stability

<b>Stability</b>	Stable under normal temperature conditions and recommended use.
------------------	-----------------------------------------------------------------

### 10.3 Possibility of Hazardous Reactions

<b>Hazardous Reactions</b>	No Information available.
----------------------------	---------------------------

### 10.4 Conditions to Avoid

<b>Conditions to Avoid</b>	Avoid heat, flames and other sources of ignition.
----------------------------	---------------------------------------------------

### 10.5 Incompatible Materials

<b>Materials to Avoid</b>	Strong oxidising substances. Strong reducing agents. Organic acids. Alkali metals.
---------------------------	------------------------------------------------------------------------------------

### 10.6 Hazardous Decomposition Products

<b>Hazardous Decomposition Products</b>	During fire, toxic gases (Carbon Oxides, Carbon Dioxide) are formed.
-----------------------------------------	----------------------------------------------------------------------

---

## SECTION 11: Toxicological Information

---

### 11.1 Information on toxicological effects

<b>Toxicological Information</b>	No toxicological information for the overall finished product.
<b>Acute Toxicity (Oral LD50)</b>	5800.00mg/kg Rat
<b>Acute Toxicity (Dermal LD50)</b>	15800.00mg/kg Rabbit
<b>Acute Toxicity (Inhalation LD50)</b>	No Information available.
<b>Serious Eye Damage/Irritation</b>	Severe irritation to eyes.
<b>Respiratory Sensitisation</b>	No Information available.
<b>Skin Sensitisation</b>	No Information available.
<b>Germ Cell Mutagenicity: Genotoxicity - In Vitro Genotoxicity - In Vivo</b>	
<b>Carcinogenicity</b>	No Information available.
<b>Specific Target Organ Toxicity - Single Exposure: STOT - Single Exposure</b>	No Information available.
<b>Specific Target Organ Toxicity - Repeated Exposure: STOT - Repeated Exposure</b>	No Information available.

<b>Inhalation</b>	Irritation of nose, throat and airway. Vapours may cause headache, fatigue, dizziness and nausea.
<b>Ingestion</b>	May cause discomfort if swallowed.
<b>Skin contact</b>	Skin irritation. Prolonged contact may cause redness, irritation and dry skin.
<b>Eye contact</b>	May cause severe irritation to eyes.
<b>Waste Management</b>	Observe all local, national and international regulations.
<b>Routes of Entry</b>	Skin and/or Eye Contact
<b>Target Organs</b>	Eyes, Skin, Inhalation and Ingestion.
<b>Aspiration Hazards:</b>	No Information available.
<b>Reproductive Toxicity:</b>	No Information available.

---

## SECTION 12: Ecological Information

---

### 12.1 Ecotoxicity

<b>Ecotoxicity</b>	The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
--------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

### 12.2 Persistence and Degradability

<b>Degradability</b>	The product is readily biodegradable.
<b>Biological Oxygen Demand</b>	No Information available.
<b>Chemical Oxygen Demand</b>	No Information available.

### 12.3 Bioaccumulative Potential

<b>Bioaccumulative Potential</b>	The product does not contain any substances expected to be bioaccumulating.
<b>Bioaccumulation Factor</b>	No Information Available
<b>Partition coefficient; n-octanol/water</b>	No Information available.

### 12.4 Mobility

<b>Mobility</b>	Completely soluble in water.
-----------------	------------------------------

### 12.5 Results of PBT and vPvB Assessment

<b>Results of PBT and vPvB Assessment</b>	The product does not contain any PBT or vPvB Substances.
-------------------------------------------	----------------------------------------------------------

### 12.6 Other Adverse Effects

<b>Other Adverse Effects</b>	No information available.
------------------------------	---------------------------

---

## SECTION 13: Disposal Considerations

---

<b>Waste Management</b>	Observe all local, national and international regulations.
-------------------------	------------------------------------------------------------

### 13.1 Waste Treatment Methods

<b>Disposal Methods</b>	Dispose of waste and residues in accordance with local authority requirements. Do not allow run-off to sewer, waterway or ground.
-------------------------	-----------------------------------------------------------------------------------------------------------------------------------

---

## SECTION 14: Transport Information

---

### 14.1 UN Number

<b>UN No. (ADR)</b>	UN1090
<b>UN No. (IMDG)</b>	UN1090
<b>UN No. (IATA)</b>	UN1090

**14.2 UN Proper Shipping Name**

ADR Proper Shipping Name	ACETONE
IMDG Proper Shipping Name	ACETONE
IATA Proper Shipping Name	Acetone

**14.3 Transport Hazard Class(es)**

ADR Class	3
IMDG Class	3
IATA Class	3

Transport Labels

**14.4 Packing Group**

ADR/RID/ADN Packing Group	II
IMDG Packing Group	II
IATA Packing Group	II

**14.5 Environmentally Hazardous Substance/Marine Pollutant**

ADR	No
IMDG	No
IATA	No

**14.6 Special Precautions for User**

EMS	F-E, S-D
Emergency Action Code	Not applicable.
Hazard No. (ADR)	33
Tunnel Restriction Code	(D/E)

**14.7 Transport in Bulk According to Annex II of MARPOL73/78 and the IBC Code****SECTION 15: Regulatory Information****15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture**

<b>EU Legislation</b>	Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments.
<b>Approved Code of Practice</b>	2011 Code of Practice for the Safety, Health and Welfare at Work (Chemical Agents) Regulations 2001 (S.I. No. 619 of 2001)
<b>Chemical Safety Assessment</b>	No chemical safety assessment has been carried out.

**SECTION 16: Other Information**

<b>General Information</b>	This Safety Data Sheet is in accordance with Reach Regulation (EC) No 453/2010
<b>Revision Comments</b>	This is first issue
<b>Revision Date</b>	03/09/2015
<b>Revision</b>	1
<b>Safety Data Sheet Status</b>	Approved.

**Hazard Statements In Full**

<b>H225</b>	Highly flammable liquid and vapour.
<b>H319</b>	Causes serious eye irritation.
<b>H336</b>	May cause drowsiness or dizziness.

**Disclaimer**

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.