

SAFETY DATA SHEET ACETONE

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier		
Product name	ACETONE	
Product number	TAC050, TAC025	
Internal identification	С	
Synonyms; trade names	propan-2-one, propanone	
CAS number	67-64-1	
EU index number	606-001-00-8	
EC number	200-662-2	
1.2. Relevant identified uses of the substance or mixture and uses advised against		
1.3. Details of the supplier of t	he safety data sheet	
Supplier	TETROSYL LIMITED	
	Bury	
	Lancashire	
	England	
	BL9 7NY	
	0161 764 5981	
	0161 797 5899	
	info@tetrosyl.com	
1.4. Emergency telephone number		
SECTION 2: Hazards identification		
2.1. Classification of the substance or mixture		
Classification (EC 1272/2008)		
Physical hazards	Flam. Liq. 2 - H225	
Health hazards	Eye Irrit. 2 - H319 STOT SE 3 - H336	
Environmental hazards	Not Classified	

Human health

See Section 11 for additional information on health hazards.

2.2. Label elements

EC number

Pictogram



Signal word

Danger

200-662-2

Hazard statements	H225 Highly flammable liquid and vapour.
	H319 Causes serious eye irritation.
	H336 May cause drowsiness or dizziness.
Precautionary statements	P101 If medical advice is needed, have product container or label at hand.
	P102 Keep out of reach of children.
	P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No
	smoking.
	P240 Ground/ bond container and receiving equipment.
	P241 Use explosion-proof electrical equipment.
	P242 Use only non-sparking tools.
	P243 Take precautionary measures against static discharge.
	P261 Avoid breathing vapour/ spray.
	P264 Wash contaminated skin thoroughly after handling.
	P271 Use only outdoors or in a well-ventilated area.
	P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
	P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing.
	Rinse skin with water/ shower.
	P304+P340 IF INHALED: Remove person to fresh air and keep 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.
	P312 Call a POISON CENTER/ doctor if you feel unwell.
	P337+P313 If eye irritation persists: Get medical advice/ attention.
	P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.
	P403+P233 Store in a well-ventilated place. Keep container tightly closed.
	P501 Dispose of contents/ container in accordance with national regulations.
Contains	ACETONE
Supplementary precautionary	P403+P235 Store in a well-ventilated place. Keep cool.
statements	P405 Store locked up.
2.3. Other hazards	
SECTION 3: Composition/info	rmation on ingredients
3.2. Mixtures	
ACETONE	60-100%

CAS number: 67-64-1

EC number: 200-662-2

Classification

Flam. Liq. 2 - H225 Eye Irrit. 2 - H319 STOT SE 3 - H336

The full text for all hazard statements is 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 Remove affected person from source of contamination. Get medical attention immediately.

Inhalation	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention. Symptoms of lung oedema (shortness of breath) may develop up to 24 hours after exposure. Show this Safety Data Sheet to the medical personnel. Place unconscious person on their side in the recovery position and ensure breathing can take place.	
Ingestion	Rinse mouth thoroughly with water. Give plenty of water to drink. Give milk instead of water if readily available. Keep affected person under observation. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention immediately. Show this Safety Data Sheet to the medical personnel.	
Skin contact	Remove contaminated clothing immediately and wash skin with soap and water. Consult a physician for specific advice. Rinse immediately with plenty of water. While rinsing, remove clothing not adhering to the affected area. Get medical attention.	
Eye contact	Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention immediately.	
4.2. Most important symptoms	and effects, both acute and delayed	
4.3. Indication of any immedia	te medical attention and special treatment needed	
SECTION 5: Firefighting meas	sures	
5.1. Extinguishing media		
Suitable extinguishing media	Use fire-extinguishing media suitable for the surrounding fire. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.	
5.2. Special hazards arising fro	om the substance or mixture	
Specific hazards	The product is flammable. Heating may generate flammable vapours. The product is highly flammable. Vapours are heavier than air and may spread near ground and travel a considerable distance to a source of ignition and flash back. Solvent vapours may form explosive mixtures with air.	
5.3. Advice for firefighters		
Protective actions during firefighting	Thermal decomposition or combustion products may include the following substances: Toxic and corrosive gases or vapours. Control run-off water by containing and keeping it out of sewers and watercourses.	
Special protective equipment for firefighters	Leave danger zone immediately.	
SECTION 6: Accidental releas	je measures	
6.1. Personal precautions, pro	tective equipment and emergency procedures	
Personal precautions	For personal protection, see Section 8. In case of spills, beware of slippery floors and surfaces.	
6.2. Environmental precaution	S	
Environmental precautions	Collect and dispose of spillage as indicated in Section 13.	
6.3. Methods and material for	containment and cleaning up	
Methods for cleaning up	For waste disposal, see Section 13. Wear protective clothing as described in Section 8 of this	
	safety data sheet. Provide adequate ventilation. Contain spillage with sand, earth or other suitable non-combustible material. Avoid the spillage or runoff entering drains, sewers or watercourses. Absorb spillage with non-combustible, absorbent material. Contact Health and Safety department on 6695 for further assistance.	

6.4. Reference to other sections

Usage precautions

ACETONE

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Read and follow manufacturer's recommendations. Remove contamination with soap and water or recognised skin cleansing agent. Do not use organic solvents. Good personal hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site. Do not eat, drink or smoke when using the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautionsKeep away from heat, sparks and open flame. Store in tightly-closed, original container in a
dry, cool and well-ventilated place.

7.3. Specific end use(s)

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Occupational exposure limits

Long-term exposure limit (8-hour TWA): WEL 500 ppm 1210 mg/m³ Short-term exposure limit (15-minute): WEL 1500 ppm 3620 mg/m³

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Long-term exposure limit (8-hour TWA): WEL 500 ppm 1210 mg/m³ Short-term exposure limit (15-minute): WEL 1500 ppm 3620 mg/m³ WEL = Workplace Exposure Limit

8.2. Exposure controls

Protective equipment

Appropriate engineering controls	Provide adequate general and local exhaust ventilation. Observe any occupational exposure limits for the product or ingredients.
Eye/face protection	Wear tight-fitting, chemical splash goggles or face shield.
Hand protection	The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible.
Other skin and body protection	Provide eyewash station. AVOID ALL SKIN AND RESPIRATORY CONTACT! Wear chemical protective suit.
Hygiene measures	Use engineering controls to reduce air contamination to permissible exposure level. Provide eyewash station. Wash contaminated clothing before reuse. Wash at the end of each work shift and before eating, smoking and using the toilet.
Respiratory protection	If ventilation is inadequate, suitable respiratory protection must be worn. Check that the respirator fits tightly and the filter is changed regularly.
SECTION 9: Physical and Cl	hemical Properties

9.1. Information on basic physical and chemical properties

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Appearance	Clear liquid.
Colour	Colourless.

Odour	Acetone. Ketonic.	
рН	pH (concentrated solution): 7	
Melting point	-94°C	
Initial boiling point and range	55.8 - 56.7°C @	
Flash point	-17°C CC (Closed cup).	
Evaporation rate	2 (diethyl ether = 1)	
Upper/lower flammability or explosive limits	Lower flammable/explosive limit: 2.5 Upper flammable/explosive limit: 13	
Vapour pressure	24.66 kPa @ °C	
Vapour density	2.0	
Relative density	0.792 @ 20°C	
Solubility(ies)	100 @ °C Soluble in water. Miscible with the following materials: Organic solvents.	
Partition coefficient	log Pow: -0.24	
Auto-ignition temperature	540°C	
Viscosity	0.42 cSt @ 20°C	
9.2. Other information		
Molecular weight	58.09	
Saturation concentration	589	
SECTION 10: Stability and reactivity		
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	activity	
10.1. Reactivity	No particular stability concerns.	
10.1. Reactivity 10.2. Chemical stability Stability 10.3. Possibility of hazardous	No particular stability concerns.	
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Inhalation	Gas or vapour is harmful on prolonged exposure or in high concentrations.
Skin contact	Repeated exposure may cause skin dryness or cracking.
Acute and chronic health hazards	This chemical can be hazardous when inhaled and/or touched. This product is corrosive. This product may cause skin and eye irritation. Prolonged contact may cause burns. May cause severe internal injury. Vapour from this product may be hazardous by inhalation.
Route of entry	Inhalation Ingestion. Skin and/or eye contact Skin absorption
SECTION 12: Ecological Infor	mation
Ecotoxicity	The product components are not classified as environmentally hazardous. However, large or frequent spills may have hazardous effects on the environment.
12.1. Toxicity	
Acute toxicity - fish	LC50, 96 hours: 5540 mg/l, Onchorhynchus mykiss (Rainbow trout) Acetone
Acute toxicity - aquatic invertebrates	EC₅₀, 48 hours: 8800 mg/l, Daphnia magna
12.2. Persistence and degrada	ability
Persistence and degradability	The product is readily biodegradable.
Phototransformation	- Degradation (%) 90: 28 days
12.3. Bioaccumulative potentia	
Bioaccumulative potential	The product does not contain any substances expected to be bioaccumulating. BCF: 3,
Partition coefficient	log Pow: -0.24
12.4. Mobility in soil	
Mobility	The product is soluble in water.
12.5. Results of PBT and vPvI	3 assessment
12.6. Other adverse effects	
SECTION 13: Disposal consid	erations
13.1. Waste treatment method	
General information	When handling waste, the safety precautions applying to handling of the product should be considered. Only experts should be permitted to carry out disposal of this material.
Disposal methods	Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Absorb in vermiculite, dry sand or earth and place into containers. Dispose of waste via a licensed waste disposal contractor.
SECTION 14: Transport inform	nation
14.1. UN number	
UN No. (ADR/RID)	1090
UN No. (IMDG)	1090
UN No. (ICAO)	1090
UN No. (ADN)	1090
14.2. UN proper shipping nam	
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Proper shipping name (ADR/RID)	ACETONE
Proper shipping name (IMDG)	ACETONE
Proper shipping name (ICAO)	ACETONE
Proper shipping name (ADN)	ACETONE
14.3. Transport hazard class(es)	

ADR/RID class	3
ADR/RID classification code	F1
ADR/RID label	3
IMDG class	3
ICAO class/division	3
ADN class	3

Transport labels



14.4. Packing group

ADR/RID packing group	П
IMDG packing group	П
ADN packing group	П
ICAO packing group	П

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant No.

14.6. Special	precautions	for user
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EmS	F-E, S-D
ADR transport category	2
Emergency Action Code	•2YE
Hazard Identification Number (ADR/RID)	33
Tunnel restriction code	(D/E)
14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code	

Transport in bulk according to Not applicable. Annex II of MARPOL 73/78 and the IBC Code

SECTION 15: Regulatory information

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

National regulations	The Control of Substances Hazardous to Health Regulations 2002 (SI 2002 No. 2677) (as amended).
	The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716).

15.2. Chemical safety assessment

SECTION 16: Other information

General information	Only trained personnel should use this material.
Revision date	12/10/2017
Revision	2
Supersedes date	14/03/2017
SDS number	32087
Hazard statements in full	H225 Highly flammable liquid and vapour. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness.

The information provided in this document has been compiled on the basis of our current knowledge and is believed to be in accordance with the requirements of the Dangerous Substances Directive, Dangerous Preparations Directive and Safety Data Sheets Directive. The information relates to the specific material designated and may not be valid for such material used in combination with any other materials or in any particular conditions or process. The conditions and extent of storage and use of material are outside of our control and within the control of the possessor or user. Consequently it is the responsibility of the possessor or user to satisfy themselves as to the completeness of such information and the suitability of the material for their own particular circumstances, conditions or use.