



SAFETY DATA SHEET

ACETONE

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name	Acetone
Product No.	ACTN
REACH Registration number	01-2119471330-49-xxxx
CAS-No.	67-64-1
EU Index No.	606-001-00-8
EC No.	200-662-2

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

Identified uses	<ul style="list-style-type: none"> Solvent for Industrial Use Chemical intermediate Uses in coatings Laboratories Use in cleaning agents Use as binders and release agents Rubber production and processing Polymer manufacturing Polymer processing Use in Oil and Gas field drilling and production operations Blowing agents Mining chemicals
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1.3. Details of the supplier of the safety data sheet

Easy Composites Ltd
 Unit 39,
 Park Hall Business Village
 Longton, Stoke-on-Trent ST3
 5XA
 United Kingdom

 sales@easycomposites.co.uk
 +44 (0)1782 454499

1.4. Emergency telephone number

0207 405 5375 (National Chemical Emergency Centre)
 0870 190 6777 (National Chemical Emergency Centre)

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	EUH066; Eye Irrit. 2 - H319; STOT SE 3 - H336
Environment	Not classified.

Human health

In high concentrations, vapours may be irritating to the respiratory system. In case of overexposure, organic solvents may depress the central nervous system causing dizziness and intoxication, and at very high concentrations unconsciousness and death. The liquid may irritate the skin, the eyes and the respiratory tract.

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Physical and Chemical Hazards

Vapours are heavier than air and may travel along the floor and in the bottom of containers. The product is highly flammable, and explosive vapours/air mixtures may be formed even at normal room temperatures.

2.2. Label elements

EC No. 200-662-2

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.
P243	Take precautionary measures against static discharge.
P305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P403+235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.

Supplemental label information

EUH066	Repeated exposure may cause skin dryness or cracking.
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2.3. Other hazards

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Product name	Acetone
REACH Registration number	01-2119471330-49-xxxx
CAS-No.	67-64-1
EU Index No.	606-001-00-8
EC No.	200-662-2
Gross Formula	C ₃ H ₆ O

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General information

NOTE! Keep affected person away from heat, sparks and flames! Following ingestion, adsorbants such as activated charcoal may be of value.

Inhalation

Move the exposed person to fresh air at once. Perform artificial respiration if breathing has stopped. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Keep the affected person warm and at rest. Get prompt medical attention.

Ingestion

Rinse mouth thoroughly. DO NOT induce vomiting. Get medical attention immediately. Provide rest, warmth and fresh air.

Skin contact

Remove affected person from source of contamination. Immediately remove contaminated clothing. Rinse immediately with plenty of water. Continue to rinse for at least 15 minutes. Get medical attention if irritation persists after washing.

Eye contact

Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention.

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

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

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SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media

Extinguish with alcohol-resistant foam, carbon dioxide or dry powder. Water spray, fog or mist. Dry chemicals, sand, dolomite etc.

Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Unusual Fire & Explosion Hazards

HIGHLY FLAMMABLE! Forms explosive mixtures with air. May travel considerable distance to source of ignition and flash back.

Specific hazards

Fire creates: Oxides of: Carbon.

5.3. Advice for firefighters

Special Fire Fighting Procedures

Keep run-off water out of sewers and water sources. Dike for water control. Avoid water in straight hose stream; will scatter and spread fire.

Use water spray to reduce vapours. If risk of water pollution occurs, notify appropriate authorities. Water spray should be used to cool containers. Wear self contained breathing apparatus

Protective equipment for fire-fighters

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

Wear appropriate protective clothing and respiratory protection. Ensure good ventilation. Avoid inhalation of vapours and contact with skin and eyes. Vapour may cause drowsiness and dizziness. Repeated exposure can cause skin drying and cracking.

6.2. Environmental precautions

Do not let the product or washing down water enter natural water courses or the sewer.

6.3. Methods and material for containment and cleaning up

Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Provide ventilation and confine spill. Do not allow runoff to sewer. Absorb in vermiculite, dry sand or earth and place into containers.

6.4. Reference to other sections

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Keep away from heat, sparks and open flame. Avoid spilling, skin and eye contact. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level. Container must be kept tightly closed.

7.2. Conditions for safe storage, including any incompatibilities

Flammable/combustible - Keep away from oxidisers, heat and flames. May attack some plastics, rubber and coatings. Store in tightly closed original container in a dry, cool and well-ventilated place. Ground container and transfer equipment to eliminate static electric sparks. Suitable containers: mild steel, stainless steel. Aluminium and its alloys. Copper and its alloys. Do not store in certain plastics. Storage Class

Flammable liquid storage.

7.3. Specific end use(s)

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Name	STD	TWA - 8 Hrs		STEL - 15 Min		Notes
Acetone	OES	500 ppm		1500 ppm		

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DNEL				
Industry	Dermal	Long Term	186	mg/kg/day
Industry	Inhalation.	Short Term	2420	mg/m3
Industry	Inhalation.	Long Term	1210	mg/m3
Consumer	Oral	Long Term	62	mg/kg/day
Consumer	Dermal	Long Term	62	mg/kg/day
Consumer	Inhalation.	Long Term	200	mg/m3
PNEC				
Freshwater	10.6	mg/l		
Marinewater	1.06	mg/l		
Sediment	30.4	mg/kg		
Sediment	3.04	mg/kg		
Soil	0.112	mg/kg		
STP	29.5	mg/l		

8.2. Exposure controls

Protective equipment



Process conditions

Provide eyewash, quick drench.

Engineering measures

Provide adequate general and local exhaust ventilation.

Respiratory equipment

In case of inadequate ventilation, use air-supplied full-mask.

Hand protection

Use protective gloves made of: Butyl rubber. Use full length gloves. Manufactured/tested in accordance with EN 374. Determined penetration times carried out in accordance with EN374 part III are not performed under practical conditions, therefore, a maximum wearing time corresponding to 50% of the penetration time is recommended.

Eye protection

If risk of splashing, wear safety goggles or face shield. Manufactured/Tested in accordance with EN 166.

Other Protection

Use engineering controls to reduce air contamination to permissible exposure level. Wear appropriate clothing to prevent repeated or prolonged skin contact. Wear air-supplied mask in confined areas. Provide eyewash station and safety shower.

Hygiene measures

Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes contaminated. DO NOT SMOKE IN WORK AREA! Isolate contaminated clothing and wash before reuse.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance	Clear liquid.
Colour	Colourless.
Odour	Sweetish. Aromatic.
Solubility	Miscible with water
Initial boiling point and boiling range (°C)	56
Melting point (°C)	-95
Relative density	0.79 20
Vapour density (air=1)	2.1
Vapour pressure	240 hPa 20
Evaporation rate	2.0 (EtEt=1)
pH-Value, Diluted Solution	5-6 50
Solubility Value (G/100G H2O@20°C)	100
Flash point (°C)	-17 CC (Closed cup).
Auto Ignition Temperature (°C)	465
Flammability Limit - Lower(%)	2.50
Flammability Limit - Upper(%)	14.3

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Partition Coefficient
(N-Octanol/Water) -0.24

9.2. Other information

Refractive Index 1.358 - 1.359

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

Reaction with: Alkalis.

10.2. Chemical stability

Stable under normal temperature conditions and recommended use.

10.3. Possibility of hazardous reactions

Hazardous Polymerisation

Will not polymerise.

10.4. Conditions to avoid

Avoid heat, flames and other sources of ignition. Avoid contact with strong oxidisers.

10.5. Incompatible materials

Materials To Avoid

Strong oxidising substances. Strong alkalis. Amines.

10.6. Hazardous decomposition products

Fire creates: Oxides of: Carbon.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Toxic Dose 1 - LD 50

5800 mg/kg (oral rat)

Toxic Conc. - LC 50

76 mg/l/4h (inh-rat)

Toxicological information

Low order of acute toxicity. Oral rat LD50:1700-10700mg/kg. A single application to the rabbit eye produced conjunctival irritation and transient corneal damage (stippling epithelial damage): A single 4h semi occlusive application to intact rabbit skin produced no sign of dermal irritation. The product did not exhibit mutagenic activity (with and without metabolic activation) in: Salmonella typhimurium. Chinese hamster ovary cells and human lymphocytes. Negative results were achieved during studies designed to investigate the potential to induce birth defects by inhalation.

Acute toxicity:

Acute Toxicity (Dermal LD50)

> 15800 mg/kg Rat

Skin Corrosion/Irritation:

Irritating.

Serious eye damage/irritation:

Moderately Irritating.

Germ cell mutagenicity:

Negative.

Inhalation

Vapours may cause drowsiness and dizziness.

Skin contact

Repeated exposure may cause skin dryness or cracking.

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Eye contact

Irritating to eyes. May cause chemical eye burns.

Health Warnings

Gas or vapour is harmful on prolonged exposure or in high concentrations. Irritant of eyes and mucous membranes. Narcotic effect. CNS depressant. Prolonged or repeated contact leads to drying of skin. Repeated exposure may cause chronic eye irritation.

Route of entry

Inhalation. Skin absorption.

Target Organs

Central nervous system Eyes Gastro-intestinal tract Respiratory system, lungs Skin

Medical Symptoms

Irritation of eyes and mucous membranes. Upper respiratory irritation. Skin irritation.

Medical Considerations

Skin disorders and allergies.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

LC 50, 96 Hrs, Fish mg/l >5500

Acute Toxicity - Fish

LC50 96 hours 5540 mg/l Onchorhynchus mykiss (Rainbow trout)

EC 50, 48 Hrs, Daphnia, mg/l 8800

12.2. Persistence and degradability

Degradability

Readily biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential

The product is not bioaccumulating.

Bioaccumulation factor

BCF 3

Partition coefficient -0.24

12.4. Mobility in soil

Adsorption/Desorption Coefficient

Soil 1.5 20

Henry's Law Constant

2929 Pa m³/mol 25

12.5. Results of PBT and vPvB assessment

This product does not contain any PBT or vPvB substances.

12.6. Other adverse effects

SECTION 13: DISPOSAL CONSIDERATIONS

General information

Contaminated packages must be completely emptied before sending away for laundering and re-use.

13.1. Waste treatment methods

Incinerate in suitable combustion chamber. Absorb in vermiculite or dry sand and dispose of at a licenced hazardous waste collection point. Confirm disposal procedures with environmental engineer and local regulations. Do not allow runoff to sewer, waterway or ground. Uncleaned empty packages should be disposed of in the same manner as the contents.

Waste Class

EWC NUMBER: Allocation of a waste code number in accordance with the European Waste Catalogue, should be carried out in agreement with an EA authorised waste disposal company.

SECTION 14: TRANSPORT INFORMATION

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14.1. UN number

UN No. (ADR/RID/ADN)	1090
UN No. (IMDG)	1090
UN No. (ICAO)	1090

14.2. UN proper shipping name

Proper Shipping Name	ACETONE
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14.3. Transport hazard class(es)

ADR/RID/ADN Class	3
ADR Label No.	3
ICAO Class/Division	3

Transport Labels



14.4. Packing group

ADR/RID/ADN Packing group	II
ICAO Packing group	II

14.5. Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant
No.

14.6. Special precautions for user

EMS	F-E, S-D
Emergency Action Code	2YE
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

Guidance Notes

Workplace Exposure Limits EH40.

EU Legislation

Regulation (EC) No 1272/2008 CLP. Regulation (EC) No 1907/2006 REACH.

Water hazard classification

WGK 1

15.2. Chemical Safety Assessment

A chemical safety assessment has been carried out.

SECTION 16: OTHER INFORMATION

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General information

Since empty containers retain product residue, follow label warnings, even after container is emptied. For further Health and Safety information contact: Health and Safety Officer. Labels should not be removed from containers until they have been cleaned and no product remains within.

Information Sources

Approved Supply List Dangerous Substances Directive Dangerous Preparations Directive

Revision Comments

Classification (67/548/EEC) removed from section 2.

Issued By Compliance Department

Revision Date 08/07/2015

Revision 6

Supersedes date 31/05/2013

SDS No. 0375

Safety Data Sheet Status Approved.

Date 08-Jul-15

Risk Phrases In Full

R11 Highly flammable

R36 Irritating to eyes.

R66 Repeated exposure may cause skin dryness or cracking.

R67 Vapours may cause drowsiness and dizziness.

Hazard Statements In Full

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.

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 themselves as to the suitability of such information for his own particular use.