

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

ACETONE

Version 4.0
Revision Date 2010/10/27

Print Date 2010/10/27

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

1.1. Product identifier

Trade name : ACETONE
Substance name : acetone
Index-No. : 606-001-00-8
CAS-No. : 67-64-1
EC-No. : 200-662-2

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

Use of the Substance/Mixture : At this time we do not yet have information on identified uses. They will be included in this safety data sheet when available.

1.3. Details of the supplier of the safety data sheet

Company : MB Fibreglass
Unit 3 Abbey Business Park
Mill Road, Newtownabbey, BT36 7EE
Telephone : 02890861992
Telefax : 02820550188
E-mail address : info@mbfg.co.uk

1.4. Emergency telephone number

Emergency telephone number : Emergency only telephone number (open 24 hours):
01865 407333 (N.C.E.C. Culham)

2. Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

REGULATION (EC) No 1272/2008			
Hazard class	Hazard category	Target Organs	Hazard statements
Flammable liquids	Category 2		H225
Serious eye damage/eye irritation	Category 2		H319

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Specific target organ toxicity - single exposure	Category 3	H336
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Classification according to EU Directives 67/548/EEC or 1999/45/EC

EU. Directive 67/548/EEC or 1999/45/EC	
Hazard symbols	Risk phrases
Highly flammable (F)	R11
Irritant (Xi)	R36
	R66
	R67

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard symbols	:	 
Signal word	:	Danger
Hazard statements	:	H225 Highly flammable liquid and vapour. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness.
Precautionary statements	:	
Prevention	:	P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
Response	:	P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

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lenses, if present and easy to do. Continue rinsing.
P337 + P313 If eye irritation persists: Get medical advice/attention.
Storage : P403 + P235 Store in a well-ventilated place. Keep cool.

Additional Labelling:

EUH066 Repeated exposure may cause skin dryness or cracking.
EUH210 Safety data sheet available on request.

Hazardous components which must be listed on the label:

II • acetone

2.3. Other hazards

3. Composition/information on ingredients

3.1. Substances

Chemical Name	Identification Number:	Amount [%]
acetone	Index-No. : 606-001-00-8	
	CAS-No. : 67-64-1	>= 99.6
	EC-No. : 200-662-2	

4. First aid measures

4.1 Description of first aid measures

General advice : Remove from exposure, lie down. Take off all contaminated clothing immediately.

If inhaled : Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. If unconscious place in recovery position and seek medical advice.

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- In case of skin contact : Wash off immediately with soap and plenty of water.
- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 5 minutes. Consult an eye specialist immediately. Go to an ophthalmic hospital if possible.
- If swallowed : Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. If swallowed, do not induce vomiting - seek medical advice. If a person vomits when lying on his back, place him in the recovery position.

4.2 Most important symptoms and effects, both acute and delayed

4.3 Indication of immediate medical attention and special treatment needed

5. Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media : High volume water jet

5.2. Special hazards arising from the substance or mixture

Specific hazards during fire fighting : Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air. Flash back possible over considerable distance. In case of fire hazardous decomposition products may be produced such as:
Carbon monoxide
Carbon dioxide (CO₂)

5.3. Advice for firefighters

Special protective equipment for fire-fighters : In the event of fire, wear self-contained breathing apparatus. Wear appropriate body protection (full protective suit)

Further information : Cool closed containers exposed to fire with water spray. Heating will cause a pressure rise - with risk of bursting. Collect contaminated fire extinguishing water separately. This

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must not be discharged into drains.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment. Keep away unprotected persons. Provide adequate ventilation. Keep away from heat and sources of ignition. Avoid contact with skin and eyes. Do not breathe vapours or spray mist. For personal protection see section 8.

6.2 Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration. If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and materials for containment and cleaning up

Methods and materials for containment and cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

Further information : Treat recovered material as described in the section "Disposal considerations".

6.4 Reference to other sections

7. Handling and storage

7.1 Precautions for safe handling

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- Advice on safe handling : Keep container tightly closed. Ensure adequate ventilation. Use personal protective equipment. Avoid contact with the skin and the eyes. Do not breathe vapours or spray mist. Emergency eye wash fountains and emergency showers should be available in the immediate vicinity.
- Hygiene measures : Keep away from food, drink and animal feedingstuffs. Smoking, eating and drinking should be prohibited in the application area. Wash hands before breaks and at the end of workday. Take off all contaminated clothing immediately. Avoid contact with the skin and the eyes. Do not breathe vapours or spray mist.

7.2 Conditions for safe storage, including any incompatibilities

- Requirements for storage areas and containers : Keep in an area equipped with solvent resistant flooring. Suitable materials for containers: Mild steel Stainless steel
- Advice on protection against fire and explosion : Combustible liquid Keep away from sources of ignition - No smoking. Use only explosion-proof equipment. Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air. Take measures to prevent the build up of electrostatic charge. Use only in an area containing explosion proof equipment.
- Further information on storage conditions : Keep tightly closed in a dry and cool place. Keep away from direct sunlight. Keep away from heat. Keep in a well-ventilated place.
- Advice on common storage : Keep away from food, drink and animal feedingstuffs. Incompatible with oxidizing agents.
- German storage class : 3 Flammable Liquids

7.3 Specific end uses

8. Exposure controls/personal protection

8.1. Control parameters

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Other OELs

acetone

CAS-No.
67-64-1

Regulatory Basis : EU. Indicative Exposure and Directives relating to the protection of risks related to work exposure to chemical, physical, and biological agents.
Regulatory List : EU ELV
/value type : Time Weighted Average (TWA):
/value : 500 ppm
/value : 1,210 mg/m3
Remarks : Indicative

Regulatory Basis : UK. EH40 Workplace Exposure Limits (WELs)
Regulatory List : EH40 WEL
/value type : Time Weighted Average (TWA):
/value : 500 ppm
/value : 1,210 mg/m3

Regulatory Basis : UK. EH40 Workplace Exposure Limits (WELs)
Regulatory List : EH40 WEL
/value type : Short Term Exposure Limit (STEL):
/value : 1,500 ppm
/value : 3,620 mg/m3

8.2. Exposure controls

Engineering measures

Refer to protective measures listed in sections 7 and 8.

Personal protective equipment

Respiratory protection

Advice : Required, if exposure limit is exceeded (e.g. OEL).
In case of insufficient ventilation, wear suitable respiratory equipment.
Breathing apparatus with filter.
Recommended Filter type:AX

Hand protection

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Advice : The glove material has to be impermeable and resistant to the product / the substance / the preparation.
Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).
Protective gloves should be replaced at first signs of wear.

Material : butyl-rubber

Gloves : ≥ 4 h

Glove thickness : 0.5 mm

Eye protection

Advice : Tightly fitting safety goggles

Skin and body protection

Advice : Solvent resistant protective clothing

Environmental exposure controls

General advice : Do not flush into surface water or sanitary sewer system.
Avoid subsoil penetration.
If the product contaminates rivers and lakes or drains inform respective authorities.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form : liquid

Colour : colourless

Odour : sweet

Odour Threshold :
pH :

Freezing point : -94.7 °C

Boiling point : 55.8 - 56.6 °C

Flash point : -18 °C
closed cup

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Upper explosion limit	: 13.0 %(V)
Lower explosion limit	: 2.1 %(V)
Vapour pressure	: 247 hPa 20 °C
	812 hPa 50 °C
Relative vapour density	: 2.0
Density	: 0.791 g/cm ³ 20 °C
Water solubility	: completely miscible
Partition coefficient: n-octanol/water	: -0.24 (measured)
Ignition temperature	: 540 °C
Viscosity, dynamic	: 0.33 mPa.s 20 °C
Oxidizing properties	:

9.2 Other information

10. Stability and reactivity

10.1. Reactivity

10.2. Chemical stability

10.3. Possibility of hazardous reactions

10.4. Conditions to avoid

Conditions to avoid : Keep away from heat and sources of ignition.

10.5. Incompatible materials

Materials to avoid : strong reducing agents
Oxidizing agents
Halogenated compounds
Alkali metals
Ethanolamine

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Hydrogen peroxide

10.6. Hazardous decomposition products

Hazardous decomposition products : Under fire conditions:
Carbon oxides

11. Toxicological information

11.1. Information on toxicological effects

Acute toxicity

Oral

acetone

**CAS-No.
67-64-1**

Value type : LD50
Value : 5,800 mg/kg
Species : rat

Inhalation

acetone

**CAS-No.
67-64-1**

Remarks : Irritating to respiratory system.

acetone

**CAS-No.
67-64-1**

Value type : LC50
Value : ca. 76 mg/l
Exposure time : 4 h
Species : rat

Dermal

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acetone	CAS-No. 67-64-1
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Value type : LD50
Value : 20,000 mg/kg
Species : rabbit

Irritation

Eyes

acetone	CAS-No. 67-64-1
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Species : rabbit
Result : Irritating to eyes.
Remarks : May cause corneal damage.

Skin

acetone	CAS-No. 67-64-1
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Remarks : Repeated exposure may cause skin dryness or cracking.

Sensitisation

acetone	CAS-No. 67-64-1
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Species : guinea pig
Result : not sensitizing

Further information

Experiences with human exposure : Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.
Chronic exposure may cause dermatitis.
Chronic inhalation causes tiredness, headache and rhinitis.

12. Ecological information

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12.1. Toxicity

Acute toxicity

Fish

acetone

**CAS-No.
67-64-1**

Species : Oncorhynchus mykiss
Exposure Time : 96 h
Value type : LC50
Value : 5,540 mg/l

Species : Lepomis macrochirus
Exposure Time : 96 h
Value type : LC50
Value : 8,300 mg/l

Toxicity to daphnia and other aquatic invertebrates.

acetone

**CAS-No.
67-64-1**

Species : Daphnia magna
Exposure time : 48 h
Value type : LC50
Value : 12,600 mg/l

algae

acetone

**CAS-No.
67-64-1**

Species : Pseudokirchneriella subcapitata
Exposure time : 48 h
Value type : NOEC
Value : 4,740 mg/l

Bacteria

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acetone	CAS-No.
	67-64-1

Species : Pseudomonas putida
Exposure time : 16 h
Value type : NOEC
Value : 1,700 mg/l

12.2. Persistence and degradability

Persistence and degradability	
Biodegradability	

acetone	CAS-No.
	67-64-1

Biodegradation : 84 %
Exposure time : 20 d
Remarks : Readily biodegradable

12.3. Bioaccumulative potential

Bioaccumulation	
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acetone	CAS-No.
	67-64-1

Bioconcentration factor (BCF) : < 10
Remarks : Does not bioaccumulate.

12.4. Mobility in soil

12.5. Results of PBT and vPvB assessment

12.6. Other adverse effects

Biochemical Oxygen Demand (BOD)	
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acetone	CAS-No.
	67-64-1

Value : 1,900 mg/g
Incubation time : 5 d

Chemical oxygen demand

acetone	CAS-No.
	67-64-1

Value : 2,100 mg/g

Additional ecological information

acetone	CAS-No.
	67-64-1

Remarks : Do not flush into surface water or sanitary sewer system.
Avoid subsoil penetration.

13. Disposal considerations

13.1. Waste treatment methods

Product : Disposal together with normal waste is not allowed. Special disposal required according to local regulations.
Do not let product enter drains.
Contact waste disposal services.

Contaminated packaging : Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning.
Do not burn, or use a cutting torch on, the empty drum.
Risk of explosion.

European Waste Catalogue Number : No waste code according to the European Waste Catalogue can be assigned for this product, as the intended use dictates the assignment. The waste code is established in consultation with the regional waste disposer.

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14. Transport information

14.1. UN number

1090

14.2. UN proper shipping name

ADR : ACETONE
RID : ACETONE
IMDG : ACETONE

14.3. Transport hazard class(es)

ADR-Class : 3
(Labels; Classification Code; Hazard identification No; Tunnel restriction code) 3; F1; 33; (D/E)

RID-Class : 3
(Labels; Classification Code; Hazard identification No) 3; F1; 33

IMDG-Class : 3
(Labels; EmS) 3; F-E, S-D

14.4. Packaging group

ADR : II

RID : II

IMDG : II

14.5. Environmental hazards

Labeling according to 5.2.1.8 ADR : no
Labeling according to 5.2.1.8 RID : no
Labeling according to 5.2.1.6.3 IMDG : no
Classification as environmentally hazardous according to 2.9.3 IMDG : no
Classified as "P" according to 2.10 IMDG : no

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14.6. Special precautions for user

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

IMDG : not applicable

15. Regulatory information

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

Notification status

15.2. Chemical Safety Assessment

16. Other information

Full text of R-phrases referred to under sections 2 and 3.

R11	Highly flammable.
R36	Irritating to eyes.
R66	Repeated exposure may cause skin dryness or cracking.
R67	Vapours may cause drowsiness and dizziness.

Full text of H-Statements referred to under sections 2 and 3.

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

Further information

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Other information : The information provided in this Safety Data Sheet is correct to our knowledge at the date of its revision. The information given only describes the products with regard to safety arrangements and is not to be considered as a warranty or quality specification and does not constitute a legal relationship. The information contained in this Safety Data Sheet relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text

|| Indicates updated section.

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