



Precautionary Statements Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Do not breathe dust / fume / gas / mist / vapours / spray.

## Section 3. Composition

### 3.1 Substances

Component	CAS No.	EEC No.	REACH No.	Conc w/w	CLP Classification (1272/2008/CE)
Chloroform	67-66-3	200-6638		>99.5%	Acute Tox. 4 (O), Skin Irrit. 2, Carc. 2, STOT RE 2

## Section 4. First Aid

### 4.1 Description of first aid measures

Eyes	Irrigate thoroughly with plenty of water for at least 10 minutes, holding the eye open. OBTAIN MEDICAL ATTENTION.
Skin	Thoroughly wash off skin with soap and water. Remove contaminated clothing immediately and wash before re-use. Unless contact has been slight OBTAIN MEDICAL ATTENTION
Inhalation	Remove from exposure. Keep warm and at rest. If there is difficulty in breathing give oxygen if available. If breathing stops or shows signs of failing, apply artificial resuscitation. If unconscious place in the recovery position. OBTAIN MEDICAL ATTENTION URGENTLY.
Ingestion	If conscious give plenty of water to drink. Do not induce vomiting. If there is difficulty in breathing give oxygen if available. If breathing stops or shows signs of failing, apply artificial resuscitation. If unconscious place in the recovery position. OBTAIN MEDICAL ATTENTION URGENTLY.
Personal protection for first aiders	Wear protective gloves / eye protection.

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

No further relevant information available.

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

No further relevant information available.

## Section 5. Fire Fighting

### 5.1 Extinguishing media

Extinguishing Media	Consider what other flammable materials are present and act accordingly. Use water spray to keep fire exposed containers cool.
Unsuitable Media	Do not use water jet.

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

Hazards	May evolve toxic fumes if involved in a fire.
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### 5.3 Advice for firefighters

Advice for firefighters	Evacuate area immediately. Keep up wind. Avoid exposure to toxic vapours and fumes. Fire-fighters should wear protective clothing and breathing apparatus.
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## Section 6. Accidental Release Measures

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

Personal Protection	Avoid breathing vapour. Use approved personal protective equipment. Evacuate area immediately. Do not allow general use of area until it is safe to do so. Beware : vapour is heavier than air and will tend to accumulate at low spots.
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### 6.2 Environmental precautions

Environmental	Keep material out of sewers, storm drains, surface waters and soil. Notify the Environmental Agency and local Environmental Health Officer if major spillage occurs.
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### 6.3 Methods and material for containment and cleaning up

Major Spillage	Contain and absorb on inert material. Transfer absorbent to salvage container for removal. Wash area down with detergent and copious amounts of water.
Minor Spillage	Contain and absorb on inert material. Transfer absorbent to container for removal. Allow solvent to evaporate in remote area, then dispose of absorbent as solid chemical waste. Wash area down with detergent and copious amounts of water.

#### 6.4 Reference to other sections

See section 8.2 for information on protective equipment and section 13 for information on disposal.

## Section 7. Storage & Handling

### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Do not breath vapours. Do not allow to contaminate clothing.

Ensure Local Exhaust Ventilation maintains vapour concentrations below the recommended limits.

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

Well ventilated, cool, dry storage . Protect from direct sunlight. Protect against moisture to prevent decomposition and corrosion.

### 7.3 Specific end use(s)

See section 1.2.

## Section 8. Workplace Exposure & Personal Protection

### 8.1 Control parameters

Component	CAS No	Concentration	Workplace Exposure Limits		
			Long Term (8hr TWA)		Short Term 15min period
Chloroform	67-66-3	>99.5%	2.0 ppm	-	9.9 ppm

Exposure data source(s) IOELV: Indicative Occupational Exposure Limit Value.

### 8.2 Exposure controls

Respiratory Protection	Use L.E.V. or natural ventilation to maintain vapour concentrations below exposure limits. If not, use a well maintained chemical cartridge organic vapour respirator, or use self contained breathing apparatus.
Hand Protection	Use solvent resistant gloves.
Eye Protection	Use tightly fitting chemical splash proof glasses or goggles.
Skin Protection	Avoid contact with skin. If skin contact or contamination of clothing is likely, protective clothing must be worn.
Special Hazards	No special precautions required.

## Section 9. Physical & Chemical Properties

### 9.1 Information on basic physical and chemical properties

Appearance	Clear colourless liquid.
Odour	Pleasant sweet odour.
pH	Not applicable
Boiling Point	62°C
Melting Point	-64°C
Flash Point	Not applicable
Upper Flammable Limit	Not applicable
Lower Flammable Limit	Not applicable
Auto Ignition	Not applicable
Explosive Properties	No.
Oxidising Properties	No.
Vapour Pressure	159mmHg @ 20°C
Relative Density	1.4850
Water Solubility	0.82%

### 9.2 Other information

No data available.

## Section 10. Stability & Reactivity

10.1	Reactivity	No data available.
10.2	Chemical Stability	Stable under normal conditions
10.3	Possibility of hazardous reactions	No data available.
10.4	Conditions to Avoid	Hot surfaces and naked flames.
10.5	Incompatible Materials	May react violently with sodium, magnesium and other alkali and alkaline earth metals. Prolonged contact with aluminium and light alloys may cause gas generation and pressure build up.
10.6	Hazardous Decomposition Products	Contact with red hot surfaces, sparks or naked flames may generate toxic acid fumes of phosgene and hydrogen chloride.

## Section 11. Toxicological Information

### 11.1 Information on toxicological effects

Eyes	Both the vapour and liquid will, irritate the eyes and can cause conjunctivitis. More irritating to the eyes than most common solvents.
Skin	Repeated or prolonged contact may defat the skin producing irritation and dermatitis. Unlikely to be absorbed across the skin in harmful amounts.
LD50 Skin	Not available
Ingestion	Causes immediate irritation of the mouth, throat and gastro-intestinal tract. Ingestion may cause liver and kidney damage.
LD50 Oral	908mg/kg Rat
Inhalation	Large amounts may cause sensitive individuals to cough. Prolonged exposure to vapour concentrations above the occupational exposure limits may result in unconsciousness and can cause cardiac sensitisation which may prove suddenly fatal. Liver and kidney damage may also occur.
LD50 Inhalation	Not available
TCLo	Not available
Carcinogenicity	Carcinogen category: 2 Has been found to be carcinogenic to rats and mice. It is suspected as a long term carcinogen in man but evidence is inconclusive.
Mutagenicity	Not considered to be a mutagen.
Reproductive Effects	Chloroform is teratogenic to rats and mice, and highly foetotoxic in rat inhalation studies. Has been implicated in similar disorders in humans. Pregnant and nursing mothers should avoid contact.
Other Information	Acts as an anaesthetic. First symptoms of lightheadedness occur within a few minutes at 1000ppm.

## Section 12. Ecological

12.1	Toxicity	Unlikely to bio-accumulate. High concentrations are toxic to aquatic life.
	LC50 Algal	Not available
	LC50 Crustacea	Not available
	LC50 Fish	Not available
12.2	Persistence and degradability	No data available.
12.3	Bioaccumulative potential	No data available.
12.4	Mobility in soil	No data available.
12.5	Results of PBT & vPvB assessment	Assessment not required.
12.6	Other adverse effects	None known at present.

## Section 13. Disposal Considerations

### 13.1 Waste treatment methods

- Disposal Methods Dispose of in a licensed incinerator for organic solvents. Do not dispose of as domestic waste.
- Contaminated Packaging Use a licensed waste disposer.

## Section 14. Transport Information

- 14.1 UN Number 1888
- 14.2 Proper Shipping Name Chloroform
- 14.3 Transport classes
- UN classification 6.1
- Subsidiary hazard(s) None
- Transport category 2
- ADR Hazard ID 60
- Tunnel Restriction Code E
- 14.4 Packing Group III
- 14.5 Environment hazards See section 12.
- 14.6 Special precautions for user No special precautions required.
- 14.7 Transport in bulk Not transported in bulk.



## Section 15. Regulatory Information

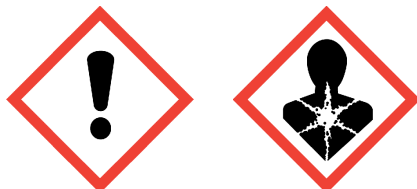
### 15.1 Safety, health and environment regulations specific for substance/mixture.

#### Classification, Labeling & Packaging of Substances & Mixtures Regulations (1272/2008/CE)

Classification Acute toxicity, category 4 (oral); Skin corrosion/irritation, category 2; Carcinogenicity, category 2; Spec target organ tox - repeat, category 2

Signal word Warning

Hazard Pictograms



Hazard Statements H351, H302, H373, H315  
Suspected of causing cancer. Harmful if swallowed. May cause damage to organs through prolonged or repeated exposure. Causes skin irritation.

Precautionary Statements P201, P202, P281, P264, P270, P260  
Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Do not breathe dust / fume / gas / mist / vapours / spray.

### 15.2 Chemical safety assessment

Assessment not required.

## Section 16. Other Information

The information contained in this document only covers the hazards presented by this material, it DOES NOT constitute a workplace risk assessment. See sections 11 for toxicological information and section 12 for ecological information.

Revision number: 1.0

Revision date: 05 September 2014

Reviewed by chemist: 05 September 2014

Printed date: 08 August 2019

