
MATERIAL SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifiers**

Product name: CHLOROFORM 99.95% ACS
CAS number: 67-66-3
EINECS number: 200-663-8
Brand: Solmedia Ltd
Product code: REA011-A
Synonyms: TRICHLOROMETHANE
METHYLIDYNE TRICHLORIDE

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

Identified uses – PC21: Laboratory chemicals.

1.3 Details of the supplier of the safety data sheet

- Name of Supplier: Solmedia Ltd.
- Address of Supplier: Unit 2, Vernon Drive
Battlefield Enterprise Park
Shrewsbury
SY1 3TF
UK
- Telephone: 0844 80 80 900
- Email: labsupplies@solmedialtd.com

1.4 Emergency telephone number

Emergency Phone # +44 (0)844 80 80 900

SECTION 2: Hazards identification

Classification under CLP: Acute Tox. 4: H302; STOT RE 1: H372; Acute Tox. 3: H331; Skin Irrit. 2: H315; Eye Irrit. 2: H319; Carc. 2: H351; Repr. 2: H361d; STOT SE 3: H336

Classification under CHIP: - Xn: R22; Xi: R38; Xn: R40; Xn: R48/20/22

Most important adverse effects: Harmful if swallowed. Causes skin irritation. Causes serious eye irritation. Toxic if inhaled. May cause drowsiness or dizziness. Suspected of causing cancer. Suspected of damaging the unborn child. Causes damage to organs through prolonged or repeated exposure.

2.2 Label elements

Hazard statements: H302: Harmful if swallowed.
H315: Causes skin irritation
H314: Causes severe skin burns and eye damage.

H319: Causes serious eye irritation.
H331: Toxic if inhaled.
H336: May cause drowsiness or dizziness.
H351: Suspected of causing cancer.
H361d: Suspected of damaging the unborn child.
H372: Causes damage to organs through prolonged or repeated exposure.

Signal words:

Danger

Hazard pictograms:

GHS05: Corrosion

GHS06: Skull and crossbones

GHS07: Exclamation mark

GHS08: Health hazard



Precautionary statements: P201: Obtain special instructions before use.
P260: Do not breathe dust/fumes/gas/mist/vapours/spray.
P264: Wash skin thoroughly after handling.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P311: Call a POISON CENTER or doctor.
P403+233: Store in a well-ventilated place. Keep container tightly closed..

2.3 Other hazards

Other hazards: This substance/mixture contains no components considered to be either persistent, bioaccumulative or toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

PBT: This product is not identified as a PBT/vPvB substance.

SECTION 3: Composition/information on ingredients

3.1 Substances

Chemical identity: CHLOROFORM 99.95% ACS
CAS number: 67-66-3
EINECS number: 200-663-8
Contains: Molecular Formula : CHCl3
Molecular Weight : 119.38 g/mol

SECTION 4: First aid measures

4.1 Description of first aid measures

- Skin contact:** Wash immediately with plenty of soap and water. Take immediately to hospital. Consult a doctor
- Eye contact:** Bathe the eye with running water for 15 minutes. Consult a doctor.
- Ingestion:** Do not induce vomiting. Never give anything by mouth to an unconscious person. Wash out mouth with water. Consult a doctor.
- Inhalation:** Move to fresh air in case of accidental inhalation of vapours. If unconscious, check for breathing and apply artificial respiration if necessary. Consult a doctor.

4.2 Most important symptoms and effects, both acute and delayed

- Skin contact:** Chronic exposure causes drying effect on the skin and eczema May be harmful if absorbed through skin. Causes skin irritation
- Eye contact:** There may be pain and redness
- Ingestion:** May be harmful if swallowed.
- Inhalation:** No data available
- Delayed / immediate effects:** No data available

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Water spray. Alcohol resistant foam. Dry chemical powder. Carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Not applicable

5.3 Advice for firefighters

Wear self-contained breathing apparatus

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate

ventilation. Evacuate the area immediately. Refer to section 8 of SDS for personal protection details.

6.2 Environmental precautions

Do not discharge into drains or rivers. Contain the spillage using bunding

6.3 Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal

6.4 Reference to other sections

Refer to section 13 of SDS

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Handling requirements: Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions: Keep container tightly closed. Store in cool, well ventilated area. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Suitable packaging: Not applicable.

7.3 Specific end use(s)

No special requirement

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Workplace exposure limits:

Respirable dust

| State | 8 hour TWA | 15 min. STEL | 8 hour TWA | 15min. STEL |
|-------|-----------------------|--------------|------------|-------------|
| EU | 9.9 mg/m ³ | - | - | - |

DNEL / PNEC No data available.

8.2 Exposure controls

Engineering measures: Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose

combination (US) or type AXBEK (EN 14387) respirator

cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

| | |
|-------------------------|---|
| Hand protection: | Full contact Material: Fluorinated rubber Minimum layer thickness: 0.7 mm Break through time: 480 min Splash contact Material: Fluorinated rubber Minimum layer thickness: 0.7 mm Break through time: 480 min |
| Eye protection: | Face-shield. Safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). |
| Skin protection: | Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. |
| Environmental: | Do not let product enter drains. Prevent from entering in public sewers or the immediate environment. |

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| | |
|-------------------------------------|----------------------|
| State: | Liquid |
| Colour: | Colourless |
| Odour: | Sweet-smelling |
| Boiling point/range°C: | 60.5 - 61.5 °C |
| Melting point/range°C: | -63 °C |
| Part.coeff. n-octanol/water: | log Pow: 1.97 |
| Autoflammability°C: | > 600 °C at 1,013hPa |
| Vapour pressure: | 210 hPa at 20 °C |
| Relative density: | 1.492 g/mL at 25 °C |

9.2 Other safety information

Not applicable

SECTION 10: Stability and 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

No data available

10.5 Incompatible materials

Various plastics, Rubber

10.6 Hazardous decomposition products

In combustion emits toxic fumes of carbon dioxide / carbon monoxide. In combustion emits toxic fumes of hydrogen chloride / phosgene.

SECTION 11: Toxicological information**11.1 Information on toxicological effects****Toxicity Values:**

| Route | Species | Test | Value | Units |
|------------|---------|------|----------|-------|
| ORAL | RAT | LD50 | 908 | mg/kg |
| INHALATION | RAT | LOEC | 500 | ppm |
| DERMAL | RBT | LD50 | > 20,000 | mg/kg |

Relevant hazards for substance:

| Hazard | Route | Basis |
|-------------------------------|-------|--------------------|
| Acute toxicity (ac. tox. 4) | ING | Based on test data |
| Acute toxicity (ac. Tox. 3) | INH | Based on test data |
| Skin corrosion/irritation | DRM | Based on test data |
| Serious eye damage/irritation | OPT | Based on test data |
| Carcinogenicity | - | Based on test data |
| Reproductive toxicity | - | Based on test data |
| STOT-single exposure | - | Based on text data |
| STOT-repeated exposure | - | Based on test data |

Symptoms / routes of exposure

Skin contact: Chronic exposure causes drying effect on the skin and eczema May be harmful if absorbed through skin. Causes skin irritation

Eye contact: There may be pain and redness.

Ingestion: May be harmful if swallowed.

Inhalation: No data available

Delayed / immediate effects: No data available.

Other information: Not applicable

SECTION 12: Ecological information

12.1 Toxicity

Ecotoxicity values:

| Species | Test | Value | Units |
|---------|----------|---------|-------|
| FISH | 96H LC50 | 103-171 | mg/l |

12.2 Persistence and degradability

Not readily biodegradable

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

This product is not identified as a PBT/vPvB substance.

12.6 Other adverse effects

Harmful to aquatic organisms.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Disposal operations: Offer surplus and non-recyclable solutions to a licensed disposal Company. Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. Leave chemicals in original containers. No mixing with other waste.
Handle uncleaned containers like the product itself.

Recovery operations: Not applicable.

Disposal of packaging: Dispose of as unused product.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal

SECTION 14: Transport information

14.1. UN number

UN number: UN1888

14.2. UN proper shipping name

Shipping name: ADR/RID: CHLOROFORM

IMDG: CHLOROFORM

IATA: Chloroform

14.3. Transport hazard class(es)

Transport class: 6.1

14.4. Packing group

Packing group: 3

14.5. Environmental hazards

Environmentally hazardous: No

Marine pollutant: No

14.6. Special precautions for user

Special precautions: No special precautions.

SECTION 15: Regulatory information

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

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for the substance or the mixture by the supplier

SECTION 16: Other information

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.

* indicates text in the SDS which has changed since the last revision.

Phrases used in s.2 and 3: H302: Harmful if swallowed

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H331: Toxic if inhaled.

H336: May cause drowsiness or dizziness.

H351: Suspected of causing cancer <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

H361d: Suspected of damaging the unborn child.

H372: Causes damage to organs <or state all organs affected, if known> through prolonged or repeated exposure <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

R22: Harmful if swallowed.

R38: Irritating to skin.

R40: Limited evidence of a carcinogenic effect.

R48/20/22: Harmful: danger of serious damage to health by prolonged exposure through inhalation and if swallowed.

Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Solmedia Ltd shall not be held liable for any damage resulting from handling or from contact with the above product.