CHLOROFORM AR MSDS

CAS-No.: 67-66-3 MSDS



MATERIAL SAFETY DATA SHEET (MSDS)

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

1.1. Product identifier

Product form : Substance

:

 EC Index-No.
 : 602-006-00-4

 EC-No.
 : 200-663-8

 CAS-No.
 : 67-66-3

 Product code
 : 00076

 Formula
 : CHCl3

Chemical structure

Synonyms : Trichloromethane

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

1.2.1. Relevant identified uses

Industrial/Professional use spec : Industrial

For professional use only

Use of the substance/mixture : Laboratory chemicals

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Labogens Fine Chem Industries

1st Floor, Above Bank of India, Guru Vihar, Rahon Road,

Ludhiana Pb. (141007)

+91 9316777775, +91 7707855700

sales@labogens.com - www.Labogens.com

1.4. Emergency telephone number

Emergency number : +91 7707855700 (9:00am - 6:00 pm)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute toxicity (oral), H302

Category 4 Acute toxicity (inhal.),

H331

Category 3

. -

Skin corrosion/irritation,

H315

Category 2

Serious eye damage/eye H319

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irritation, Category 2

Carcinogenicity, Category H351

Reproductive toxicity, H361d

Category 2

Specific target organ H336

toxicity — Single exposure, Category 3,

Narcosis

H372 Specific target organ

toxicity — Repeated exposure, Category 1

Full text of H statements: see section 16

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Carc.Cat.3; R40 Xn: R22 Xn; R48/20/22 Xi; R38

Full text of R-phrases: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. **Label elements**

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)





GHS06

GHS08

Signal word (CLP) : Danger

Hazard statements (CLP) : 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.

H361d - Suspected of damaging the unborn child.

H372 - Causes damage to organs through prolonged or repeated exposure.

Precautionary statements (CLP) : P260 - Do not breathe dust/fume/gas/mist/vapours/spray.

P280 - Wear protective gloves/protective clothing/eye protection/face protection. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P311 - Call a POISON CENTER/doctor

Other hazards

No additional information available

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SECTION 3: Composition/information on ingredients

3.1. Substances

Name : CHLOROFORM AR

CAS-No. : 67-66-3 EC-No. : 200-663-8 EC Index-No. : 602-006-00-4

Full text of R- and H-statements: see section 16

3.2. Mixtures

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Give oxygen or

artificial respiration if necessary. If you feel unwell, seek medical advice.

First-aid measures after skin contact : Gently wash with plenty of soap and water. If skin irritation occurs: Get medical

advice/attention.

First-aid measures after eye contact : Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously

with water for several minutes. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion : Rinse mouth out with water. If you feel unwell, seek medical advice.

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

Symptoms/effects : Causes damage to organs.

Symptoms/effects after skin contact : Causes skin irritation.

Symptoms/effects after ingestion : Harmful if swallowed.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2).

Unsuitable extinguishing media : Do not use extinguishing media containing water.

5.2. Special hazards arising from the substance or mixture

No additional information available

5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Use personal protective equipment as required.

Emergency procedures : Stop release.

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6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Clean up immediately by sweeping or vacuum. Clean contaminated surfaces with an

excess of water.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Obtain special instructions before use. Do not handle until all safety precautions

have been read and understood. Avoid breathing dust/fume/gas/mist/vapours/spray.

Hygiene measures : Do not eat, drink or smoke when using this product. Wash hands, forearms and face

thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in original container. Store in a well-ventilated place. Store in a dry place.

Protect from sunlight.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Hand protection : Protective gloves

Eye protection : Chemical goggles or safety glasses

Skin and body protection : Wear suitable protective clothing

Respiratory protection : Wear respiratory protection.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid

Molecular mass : 119.38 g/mol Colour : Clear Colorless.

Odour : sweet pleasant.

Odour threshold : No data available

pH : No data available

Relative evaporation rate (butylacetate=1) : 11.6

Melting point : -63 °C

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Freezing point : No data available

Boiling point : 60.5 - 61.5

Flash point : No data available

Auto-ignition temperature : No data available

Decomposition temperature : 290 °C

Flammability (solid, gas) : No data available

Vapour pressure : 213.3 hPa at 20°C

Relative vapour density at 20 °C : 4.12

Relative density : No data available

Density : 1.492 g/cm³

Solubility : Water: Slightly soluble

Log Pow : 1.97

Viscosity, kinematic : No data available

Viscosity, dynamic : 0.58 cP @ 20 °C

Explosive properties : No data available

Oxidising properties : No data available

Explosive limits : No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

Air contact. Direct sunlight. Heat.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

No additional information available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Oral: Harmful if swallowed. Inhalation: Toxic if inhaled.

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Skin corrosion/irritation : Causes skin irritation.

Serious eye damage/irritation : Causes serious eye irritation.

Respiratory or skin sensitisation : Not classified Germ cell mutagenicity : Not classified

Carcinogenicity : Suspected of causing cancer.

Reproductive toxicity : Suspected of damaging the unborn child. STOT-single exposure : May cause drowsiness or dizziness.

STOT-repeated exposure : Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard : Not classified

CHLOROFORM AR (67-66-3)	
Viscosity, kinematic	0.389 mm ² /s

Potential adverse human health effects

and symptoms

: Harmful if swallowed.

SECTION 12: Ecological information

12.1. Toxicity

No additional information available

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

CHLOROFORM AR (67-66-3)	
Log Pow	1.97

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal recommendations

: Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

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SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

UN-No. (ADR) : 1888 UN-No. (IMDG) : 1888 UN-No. (IATA) : 1888 UN-No. (ADN) : 1888 UN-No. (RID) : 1888

14.2. UN proper shipping name

Proper Shipping Name (ADR) : CHLOROFORM
Proper Shipping Name (IMDG) : CHLOROFORM
Proper Shipping Name (IATA) : Chloroform
Proper Shipping Name (ADN) : CHLOROFORM
Proper Shipping Name (RID) : CHLOROFORM

Transport document description (ADR) : UN 1888 CHLOROFORM, 6.1, III, (E)
Transport document description (IMDG) : UN 1888 CHLOROFORM, 6.1, III
Transport document description (IATA) : UN 1888 CHLOROFORM, 6.1, III
Transport document description (ADN) : UN 1888 CHLOROFORM, 6.1, III
Transport document description (RID) : UN 1888 CHLOROFORM, 6.1, III

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : 6.1 Danger labels (ADR) : 6.1



IMDG

Transport hazard class(es) (IMDG) : 6.1 Danger labels (IMDG) : 6.1



IATA

Transport hazard class(es) (IATA) : 6.1 Hazard labels (IATA) : 6.1



ADN

Transport hazard class(es) (ADN) : 6.1

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Danger labels (ADN) : 6.1

6

RID

Transport hazard class(es) (RID) : 6.1 Danger labels (RID) : 6.1



14.4. Packing group

Packing group (ADR) : III
Packing group (IMDG) : III
Packing group (IATA) : III
Packing group (ADN) : III
Packing group (RID) : III

14.5. Environmental hazards

Dangerous for the environment : No Marine pollutant : No

Other information : No supplementary information available

14.6. Special precautions for user

- Overland transport

Classification code (ADR) : T1
Limited quantities (ADR) : 5I
Excepted quantities (ADR) : E1

Packing instructions (ADR) : P001, IBC03, LP01, R001

Mixed packing provisions (ADR) : MP19
Portable tank and bulk container : T7

instructions (ADR)

Portable tank and bulk container special

provisions (ADR)

: TP2

Tank code (ADR) : L4BH
Tank special provisions (ADR) : TU15, TE19

Vehicle for tank carriage : AT
Transport category (ADR) : 2
Special provisions for carriage - Packages : V12

(ADR)

Special provisions for carriage - Loading,

unloading and handling (ADR)

: CV13, CV28

Special provisions for carriage - Operation : S9

(ADR)

Hazard identification number (Kemler No.) : 60

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Orange plates

60 1888

Tunnel restriction code (ADR) : E EAC code : 2Z

- Transport by sea

Packing instructions (IMDG) : P001, LP01 IBC packing instructions (IMDG) : IBC03 Tank instructions (IMDG) : T7 Tank special provisions (IMDG) : TP2 : F-A EmS-No. (Fire) : S-A EmS-No. (Spillage) Stowage category (IMDG) : A : SW2 Stowage and handling (IMDG)

Properties and observations (IMDG) : Colourless, volatile liquid.Boiling point: 61°C. Non-flammable. When involved in a

fire, evolves extremely toxic fumes (phosgene). Toxic if swallowed, by skin contact

or by inhalation. Anaesthetic.

MFAG-No : 151

- Air transport

PCA Excepted quantities (IATA) : E1
PCA Limited quantities (IATA) : Y680
PCA limited quantity max net quantity : 2L
(IATA)

PCA packing instructions (IATA) : 680
PCA max net quantity (IATA) : 60L
CAO packing instructions (IATA) : 680
CAO max net quantity (IATA) : 220L
ERG code (IATA) : 6A

- Inland waterway transport

Classification code (ADN) : T1

Special provisions (ADN) : 802

Limited quantities (ADN) : 5 L

Excepted quantities (ADN) : E1

Carriage permitted (ADN) : T

Equipment required (ADN) : PP, EP, TOX, A

Ventilation (ADN) : VE02 Number of blue cones/lights (ADN) : 0

- Rail transport

Classification code (RID) : T1
Excepted quantities (RID) : E1

Packing instructions (RID) : P001, IBC03, LP01, R001

: TP2

Mixed packing provisions (RID) : MP19
Portable tank and bulk container : T7

instructions (RID)

Portable tank and bulk container special

provisions (RID)

Tank codes for RID tanks (RID) : L4BH
Special provisions for RID tanks (RID) : TU15
Transport category (RID) : 2
Special provisions for carriage – Packages : W12

(RID)

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Special provisions for carriage - Loading,

unloading and handling (RID)

: CW13, CW28, CW31

Colis express (express parcels) (RID) : CE8
Hazard identification number (RID) : 60

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

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

No REACH Annex XVII restrictions
CHLOROFORM AR is not on the REACH Candidate List
CHLOROFORM AR is not on the REACH Annex XIV List

15.1.2. National regulations

Germany

Reference to AwSV : Water hazard class (WGK) 3, severe hazard to water (Classification according to

AwSV; ID No. 54)

12th Ordinance Implementing the Federal

Immission Control Act - 12.BImSchV

: Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)

Netherlands

SZW-lijst van kankerverwekkende stoffen : The substance is not listed SZW-lijst van mutagene stoffen : The substance is not listed NIET-limitatieve lijst van voor de : The substance is not listed

NIET-limitatieve lijst van voor de

voortplanting giftige stoffen -

Vruchtbaarheid

: The substance is not listed

NIET-limitatieve lijst van voor de

voortplanting giftige stoffen – Ontwikkeling

voortplanting giftige stoffen - Borstvoeding

: CHLOROFORM AR is listed

Denmark

Recommendations Danish Regulation : Young people below the age of 18 years are not allowed to use the product

Pregnant/breastfeeding women working with the product must not be in direct

contact with the product

The requirements from the Danish Working Environment Authorities regarding work

with carcinogens must be followed during use and disposal

15.2. Chemical safety assessment

No additional information available

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SECTION 16: Other information

Full text of R-. H- and EUH-statements:

Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Carc. 2	Carcinogenicity, Category 2
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Repr. 2	Reproductive toxicity, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT RE 1	Specific target organ toxicity — Repeated exposure, Category 1
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
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.
H361d	Suspected of damaging the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
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
Xi	Irritant
Xn	Harmful

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

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