CHLOROFORM FOR PESTICIDE RESIDUE TRACE ANALYSIS 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	: 0080A
Formula	: CHCI3
Chemical structure	:
	CHCL
	UIUB

Synonyms

: Trichloromethane

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

1.2.1. Relevant identified uses

Use of the substance/mixture

: Industrial. For professional use only

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	H331
(inhalation:gas) Category	
3	
Skin corrosion/irritation,	H315
Category 2	
Serious eye damage/eye	H319
irritation, Category 2	
Carcinogenicity, Category	H351

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2 Reproductive toxicity, H361d Category 2 Specific target organ H336 toxicity — Single exposure, Category 3, Narcosis Specific target organ H372 toxicity — Repeated exposure, Category 1

Full text of hazard classes and 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 Hazard pictograms (CLP)	0. 1272/2008 [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) :	 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 doctor. P261 - Avoid breathing vapours, dust, fume, gas.

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SECTION 3: Composition/information	on ingradients
3.1. Substances	
Name	: CHLOROFORM For pesticide residue trace analysis
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 see	ction 16
3.2. Mixtures	
Not applicable	
SECTION 4: First aid measures	
4.1. Description of first aid measu	Ires
First-aid measures general	: Suspected of causing cancer.
First-aid measures after inhalation	: Assure fresh air breathing. If breathing is difficult, remove victim to fresh air and kee at rest in a position comfortable for breathing.
First-aid measures after skin contact	: Wash with plenty of water/ Wash contaminated clothing before reuse. Get medical advice/attention.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.
First-aid measures after ingestion	: Rinse mouth. Call a POISON CENTER/doctor if you feel unwell.
4.2. Most important symptoms an	id effects, both acute and delayed
Symptoms/effects	: Causes damage to organs. May cause cancer.
Symptoms/effects after inhalation	: May cause drowsiness or dizziness.
Symptoms/effects after skin contact	: Causes skin irritation.
Symptoms/effects after eye contact	: Causes serious eye irritation.
Symptoms/effects after ingestion	: Harmful if swallowed.
Chronic symptoms	: Suspected of damaging the unborn child.
4.3. Indication of any immediate r	nedical attention and special treatment needed
Treat symptomatically.	
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Carbon dioxide. Dry powder. Foam. Water spray.
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 enter fire area without proper protective equipment, including respiratory
receased during monghting	protection.

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SECTION 6: Accidental release measure	es
6.1. Personal precautions, protectiv	ve equipment and emergency procedures
6.1.1. For non-emergency personnel Emergency procedures	: Evacuate unnecessary personnel.
6.1.2. For emergency responders Protective equipment Emergency procedures	: Use personal protective equipment as required.: Ventilate area.
6.2. Environmental precautions	
Avoid release to the environment.	
6.3. Methods and material for conta	ainment and cleaning up
Methods for cleaning up	: On land, sweep or shovel into suitable containers. Collect spillage.
6.4. Reference to other sections	
No additional information available	
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
7.1.Precautions for safe handlingPrecautions for safe handling	: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid contact with skin and eyes. Do not breathe vapours.
•	have been read and understood. Avoid contact with skin and eyes. Do not breathe
Precautions for safe handling	have been read and understood. Avoid contact with skin and eyes. Do not breathe vapours.Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
Precautions for safe handling Hygiene measures	have been read and understood. Avoid contact with skin and eyes. Do not breathe vapours.Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
Precautions for safe handling Hygiene measures 7.2. Conditions for safe storage, inc	 have been read and understood. Avoid contact with skin and eyes. Do not breathe vapours. Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. cluding any incompatibilities Store in a well-ventilated place. Keep container tightly closed. Store in original
Precautions for safe handling Hygiene measures 7.2. Conditions for safe storage, inc Storage conditions	 have been read and understood. Avoid contact with skin and eyes. Do not breathe vapours. Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. cluding any incompatibilities Store in a well-ventilated place. Keep container tightly closed. Store in original
 Precautions for safe handling Hygiene measures 7.2. Conditions for safe storage, ind Storage conditions 7.3. Specific end use(s) 	 have been read and understood. Avoid contact with skin and eyes. Do not breathe vapours. Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. cluding any incompatibilities Store in a well-ventilated place. Keep container tightly closed. Store in original container.
 Precautions for safe handling Hygiene measures 7.2. Conditions for safe storage, ind Storage conditions 7.3. Specific end use(s) No additional information available SECTION 8: Exposure controls/personal 	 have been read and understood. Avoid contact with skin and eyes. Do not breathe vapours. Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. cluding any incompatibilities Store in a well-ventilated place. Keep container tightly closed. Store in original container.
 Precautions for safe handling Hygiene measures 7.2. Conditions for safe storage, ind Storage conditions 7.3. Specific end use(s) No additional information available 	 have been read and understood. Avoid contact with skin and eyes. Do not breathe vapours. Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. cluding any incompatibilities Store in a well-ventilated place. Keep container tightly closed. Store in original container.

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	: [In case of inadequate ventilation] wear respiratory protection.
SECTION 9: Physical and chemica	l properties

9.1. Information on basic physical a	and chemical properties
Physical state	: Liquid

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according to Regulation (EC) No. 1907/2006 (REACH) wi	th its amendment Regulation (EU) 2015/830
Molecular mass Colour	: 119.38 g/mol : Clear colourless.
Odour	: sweet pleasant.
Odour threshold	: No data available
рН	: No data available
Relative evaporation rate (butylacetate=1)	
Melting point	: -63 °C
Freezing point	: No data available
Boiling point	: 60.5 - 61.5 K
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 Solubility	: 1.492 g/cm ³ : Water: Slightly soluble
Log Pow	: 1.97
Viscosity, kinematic	: No data available
Viscosity, dynamic	: 0.58 cP at 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 reactio	ns
No additional information available	

10.4. Conditions to avoid

Direct sunlight. Overheating. Air contact.

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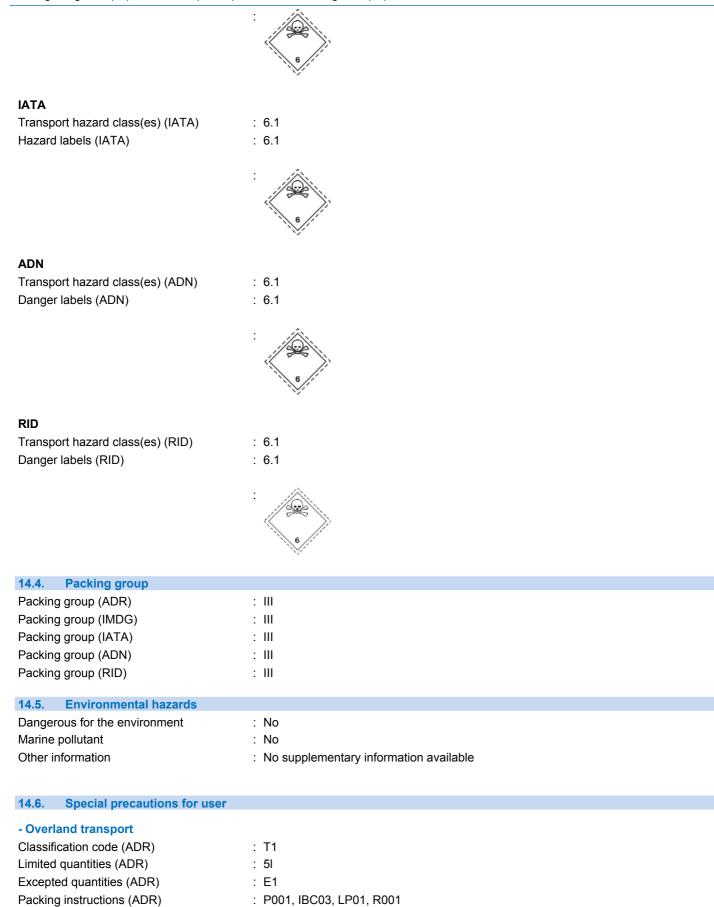
40.5 In a new official works visits	
10.5. Incompatible materials	
Oxidizing agent.	
10.6. Hazardous decomposition produ	cts
No additional information available	
SECTION 11: Toxicological information	
11.1. Information on toxicological effe	cts
	: Oral: Harmful if swallowed. Inhalation:gas: Toxic if inhaled.
2	Ŭ
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
	: 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 For pesticide residue tr	
Viscosity, kinematic	0.38873995 mm²/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	
12.3. Bioaccumulative potential CHLOROFORM For pesticide residue tr	ace analysis (67-66-3)
	ace analysis (67-66-3) 1.97
CHLOROFORM For pesticide residue tr	
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CHLOROFORM For pesticide residue to Log Pow	

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12.5. Results of PBT and vPvB asse No additional information available	ssment
12.6.Other adverse effectsNo additional information availableSECTION 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.
SECTION 14: Transport information	
In accordance with ADR / RID / IMDG / IA	
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
C ()	
IMDG	
Transport hazard class(es) (IMDG)	: 6.1
Danger labels (IMDG)	: 6.1

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Mixed packing provisions (ADR) : MP19

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Portable tank and bulk container	
instructions (ADR)	: T7
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 (ADR)	s : V12
Special provisions for carriage - Loading, unloading and handling (ADR)	: CV13, CV28
Special provisions for carriage - Operation (ADR)	1 : S9
Hazard identification number (Kemler No.)) : 60
Orange plates	60 1888
Tunnel restriction code (ADR)	: E
EAC code	: 2Z
Transport by see	
- Transport by sea	
Packing instructions (IMDG)	: P001, LP01
IBC packing instructions (IMDG)	: IBC03
Tank instructions (IMDG)	: T7
Tank special provisions (IMDG)	: TP2
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-A
Stowage category (IMDG)	: A
Stowage and handling (IMDG)	: SW2
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 (IATA)	: 2L
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)	: 5L
Excepted quantities (ADN)	: E1
Carriage permitted (ADN)	. =' : Т
Equipment required (ADN)	: PP, EP, TOX, A
Ventilation (ADN)	: VE02
Number of blue cones/lights (ADN)	: 0

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- Rail transport	
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Classification code (RID)	:	T1
Excepted quantities (RID)	:	E1
Packing instructions (RID)	:	P001, IBC03, LP01, R001
Mixed packing provisions (RID)	:	MP19
Portable tank and bulk container instructions (RID)	:	Τ7
Portable tank and bulk container special provisions (RID)	:	TP2
Tank codes for RID tanks (RID)	:	L4BH
Special provisions for RID tanks (RID)	:	TU15
Transport category (RID)	:	2
Special provisions for carriage – Packages (RID)	:	W12
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 For pesticide residue trace analysis is not on the REACH Candidate List CHLOROFORM For pesticide residue trace analysis is not on the REACH Annex XIV List

15.1.2. National regulations

Germany

12th Ordinance Implementing the Federal : Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance) Immission Control Act - 12.BImSchV

Netherlands

SZW-lijst van kankerverwekkende stoffen SZW-lijst van mutagene stoffen	: The substance is not listed : The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding	: 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	: CHLOROFORM For pesticide residue trace analysis is listed

Denmark

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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

SECTION 16: Other information

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

Acute Tox. 3 (Inhalation:gas)	Acute toxicity (inhalation:gas) 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	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