CHLOROFORM AR MSDS

CAS-No.: 67-66-3 MSDS



MATERIAL SAFETY DATA SHEET (MSDS)

1.1.	Product identifier		
Produc	t form	:	Substance
		:	
EC Inde	ex-No.	:	602-006-00-4
EC-No.		:	200-663-8
CAS-N	0.	:	67-66-3
Produc	t code	:	00076
Formul	а	:	CHCI3
Chemic	al structure	:	
			CHCL
			011013

Synonyms

: Trichloromethane

1.2.	Relevant identified uses of the substance or mixture and uses advised against		
1.2.1.	1.2.1. Relevant identified uses		
Industri	al/Professional use spec	: Industrial For professional use only	
Use of t	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

SPAN LAB UNIT NO. 14,SKY INDUSTRIAL ESTATE,WALIV, VASAI (E) 401208 Mumbai - INDIA PH: +91 9820509929 info@spanlab.in www.spanlab.in

SECTION 2: Hazards identification

2	.1. Classification of	the substance or mixture		
С	Classification according to Regulation (EC) No. 1272/2008 [CLP]			
Α	cute toxicity (oral),	H302		
С	ategory 4			
Α	cute toxicity (inhal.),	H331		
С	ategory 3			
S	kin corrosion/irritation,	H315		
	ategory 2			
S	erious eye damage/eye	H319		

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irritation, Category 2 Carcinogenicity, Category H351 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 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)	
Signal word (CLP)	GHS06 GHS08 : Danger
c ()	 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

2.3.	Other hazards	
No ado	itional information available	•

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SECTION 3: Composition/information on ingredients

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	ON 4: First aid measures		
4.4			
4.1.	Description of first aid measures		
First-aid	d 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	d measures after skin contact		Gently wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.
First-aid	d 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	d measures after ingestion	:	Rinse mouth out with water. If you feel unwell, seek medical advice.
4.2.	Most important symptoms and e	ffe	cts, both acute and delayed
Sympto	oms/effects	: (Causes damage to organs.
Sympto	oms/effects after skin contact	: (Causes skin irritation.
Sympto	oms/effects after ingestion	:	Harmful if swallowed.
4.3.	Indication of any immediate med	lica	Il attention and special treatment needed
Treat s	ymptomatically.		
SECTIO	ON 5: Firefighting measures		
5.1.	Extinguishing media		
Suitable	e extinguishing media	: (dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2).
Unsuita	ble extinguishing media	:	Do not use extinguishing media containing water.
5.2.	Special hazards arising from the	su	ibstance or mixture
No add	itional information available		
5.3.	Advice for firefighters		
Protect	ion during firefighting	:	Do not attempt to take action without suitable protective equipment.
SECTIO	ON 6: Accidental release measures	s	
6.1.	Personal precautions, protective	e eq	uipment and emergency procedures
6.1.1.	For non-emergency personnel		
	ency procedures	:	Evacuate unnecessary personnel.
6.1.2.	For emergency responders		
Protect	Protective equipment : Use personal protective equipment as required.		
	ency procedures		Stop release.

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6.2. Environmental precautions			
Avoid release to the environment.			
6.3. Methods and material for cor	ntainment 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	g		
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/perso	nal protection		
8.1. Control parameters			
No additional information available			

9.2 Experiere controle	
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 prop	perties
9.1. Information on basic physical a	and chemical properties
Physical state	: Liquid
Molecular mass	: 119.38 g/mol
Colour	: Clear Colorless.
Odour	: sweet pleasant.
Odour threshold	: No data available
рН	: 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 Solubility	: 1.492 g/cm ³ : 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.		
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10.5. Incompatible materials No additional information available		
10.6. Hazardous decomposition products		
No additional information available		
SECTION 11: Toxicological information		

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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 mm²/s
Potential adverse human health effects	: Harmful if swallowed.
and symptoms	
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 asses	ssment
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	: Dispose of contents/container to hazardous or special waste collection point, in
recommendations	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 (IMDC)	: 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
	6
IMDG	
Transport hazard class(es) (IMDG)	: 6.1
Danger labels (IMDG)	: 6.1
ΙΑΤΑ	
Transport hazard class(es) (IATA)	: 6.1
Hazard labels (IATA)	: 6.1
	6
ADN	
Transport hazard class(es) (ADN)	: 6.1

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Danger labels (ADN)	: 6.1
RID Transport hazard class(es) (RID)	: 6.1
Danger labels (RID)	: 6.1
	6
14.4. Packing group	
Packing group (ADR)	: III
Packing group (IMDG)	: III
Packing group (IATA)	: III
Packing group (ADN)	: 11
Packing group (RID)	: III
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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)	: 51
Excepted quantities (ADR)	: E1
Packing instructions (ADR)	: P001, IBC03, LP01, R001
Mixed packing provisions (ADR)	: MP19
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)	: V12
Special provisions for carriage - Loading, unloading and handling (ADR)	: CV13, CV28
Special provisions for corrigge Operation	. 60

Special provisions for carriage - Operation : S9

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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
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)	: 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
Mixed packing provisions (RID)	: MP19
Portable tank and bulk container instructions (RID)	: T7
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 · W12
Special provisions for carriage – Packages (RID)	. VV 12

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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. BImSchV (Hazardous Incident Ordinance)

Netherlands

: The substance is not listed
: The substance is not listed
: The substance is not listed
: The substance is not listed
: 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

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