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ReAgent

CHLOROFORM AR MSDS

According to Regulation (EC) No 1907/2006

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

PRODUCT NAME	CHLOROFORM AR
CAS-No.	67-66-3
EU INDEX NO.	602-006-00-4
EC No.	200-663-8
SUPPLIER	Reagent Chemical Services 18 Aston Fields Road Whitehouse Industrial Estate Runcorn Cheshire WA7 3DL T: 01928 716903 F: 01928 716425 E: info@reagent.co.uk
PRODUCT NO.	1202
APPLICATION	General chemical reagent
EMERGENCY TELEPHONE	Emergency Telephone : +44 (0) 1928 716903 Between 08.30 - 17.00

2 HAZARDS IDENTIFICATION

Harmful if swallowed. Irritating to skin. Limited evidence of a carcinogenic effect. Harmful: danger of serious damage to health by prolonged exposure through inhalation and if swallowed.

CLASSIFICATION (67/548) -

3 COMPOSITION/INFORMATION ON INGREDIENTS

EU INDEX NO.	602-006-00-4
EC No.	200-663-8
CAS-No.	67-66-3

4 FIRST-AID MEASURES

GENERAL INFORMATION

CAUTION! First aid personnel must be aware of own risk during rescue! First aid personnel must protect themselves with all necessary personal protective equipment during the assistance of casualties. When breathing is difficult, properly trained personnel may assist the casualty by administering oxygen. If casualty needs to be resuscitated avoid mouth to mouth contact, use a mechanical device such as a bag and mask to provide artificial respiration. Place unconscious person on the side in the recovery position and ensure breathing can take place. Do not give victim anything to drink if they are unconscious. If medical attention is required take this information sheet with the casualty.

INHALATION

Remove victim immediately from source of exposure. Provide rest, warmth and fresh air. In case of severe exposure or if any discomfort continues get medical attention.

INGESTION

Do not induce vomiting. Immediately rinse mouth and drink plenty of water. Get medical attention immediately!

SKIN CONTACT

Immediately remove contaminated clothing and wash before re-use. Wash the skin immediately with soap and water. Unless contact has been slight, obtain medical attention.

EYE CONTACT

Promptly wash eyes with plenty of water or eye wash solution while lifting the eyelids. If possible remove any contact lenses and continue to wash. Get medical attention.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

The product is non-combustible. Use fire-extinguishing media appropriate for surrounding materials.

CHLOROFORM AR**SPECIFIC HAZARDS**

In case of fire, toxic and corrosive gases may be formed. Phosgene (COCl₂).

PROTECTIVE MEASURES IN FIRE

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

6 ACCIDENTAL RELEASE MEASURES**PERSONAL PRECAUTIONS**

Wear protective clothing as described in Section 8 of this safety data sheet.

SPILL CLEAN UP METHODS

Small Spillages: Absorb with sand or other inert absorbent. Large Spillages: Dam and absorb spillages with sand, earth or other inert material. Collect spillage in containers, seal securely and deliver for disposal according to local regulations. Containers with collected spillage must be properly labelled with correct contents and hazard symbol. If there is a risk of vapours causing a pressure build up, allow the containers to vent before sealing. Wash spillage site well with water and detergent, be aware of the potential for surfaces to become slippery. Ventilate well. Wash thoroughly after dealing with a spillage.

7 HANDLING AND STORAGE**USAGE PRECAUTIONS**

Avoid inhalation of vapours/spray and contact with skin and eyes.

STORAGE PRECAUTIONS

Store in closed original container at temperatures between 15°C and 25°C. Store away from direct sunlight and moisture

STORAGE CLASS

Chemical storage.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	Std	TWA - 8 hrs		STEL - 15 min		Notes
CHLOROFORM AR	OES	2 ppm(Sk)	9.9 mg/m ³ (Sk)			
CHLOROFORM AR	WEL	2 ppm(Sk)	9.9 mg/m ³ (Sk)			

ENGINEERING MEASURES

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined workplace exposure limit (WEL) is not exceeded. Work in fume cupboard.

RESPIRATORY EQUIPMENT

Chemical respirator with organic vapour cartridge.

HAND PROTECTION

Wear protective gloves. Viton rubber (fluor rubber). Polyethylene/Ethylene Vinyl Alcohol (PE/EVAL).

EYE PROTECTION

Wear approved safety goggles.

OTHER PROTECTION

Wear suitable protective clothing as protection against splashing or contamination. Provide eyewash station and safety shower. If there is a risk of splashing then wear a face shield. Wear plastic apron and full length gloves if handling large amounts.

HYGIENE MEASURES

Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes wet or contaminated. Promptly remove any clothing that becomes wet or contaminated. When using do not eat, drink or smoke.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Liquid		
COLOUR	Colourless		
ODOUR	Characteristic Sweetish		
SOLUBILITY	Slightly soluble in water.		
BOILING POINT (°C)	61	MELTING POINT (°C)	- 63
RELATIVE DENSITY	1.48	VAPOUR DENSITY (air=1)	4.12
VAPOUR PRESSURE	21 kPa 20	VISCOSITY	0.56 mPas 20
AUTO IGNITION	982		
TEMPERATURE (°C)			

10 STABILITY AND REACTIVITY

CHLOROFORM AR**STABILITY**

Stable under normal temperature conditions.

CONDITIONS TO AVOID

Contact with hot surfaces liberates phosgene.

MATERIALS TO AVOID

Alkali metals. Alkali earth metals. Powdered metal. Strong alkalis. Ketones Organic nitro compounds. Peroxy compounds. Nitrogen compounds Nitrogen oxides. Some plastics and rubber.

HAZARDOUS DECOMPOSITION PRODUCTS

Phosgene (COCl₂). Hydrogen chloride (HCl). Chlorine.

11 TOXICOLOGICAL INFORMATION

TOXIC DOSE 1 - LD 50 908 mg/kg (oral rat)

INHALATION

Vapours may irritate throat and respiratory system and cause headache, dizziness and dullness. Rapid absorption which may lead to spasms and narcosis.

INGESTION

Nausea, vomiting.

SKIN CONTACT

Irritating to skin. Possible skin absorption.

EYE CONTACT

Irritating to eyes.

HEALTH WARNINGS

Embryotoxic effect probable Pregnant women should not be exposed to this product.

OTHER HEALTH EFFECTS

Carcinogen Category 3. May cause adverse mutagenic or teratogenic effects.

TARGET ORGANS

Long term exposure Kidneys. Liver.

12 ECOLOGICAL INFORMATION**ECOTOXICITY**

Although not classified as environmentally hazardous, harmful effects cannot be excluded in the event of improper handling or disposal. Do not allow to enter drinking water, waste water or soil.

LC 50, 96 Hrs, FISH mg/l 171 (Pimephales promelas)

EC 50, 48 Hrs, DAPHNIA, mg/l 353 (Daphnia Magna)

BIOACCUMULATION

Low bioaccumulation potential.

13 DISPOSAL CONSIDERATIONS**DISPOSAL METHODS**

Dispose of waste and residues in accordance with local authority requirements.

14 TRANSPORT INFORMATION

UK ROAD CLASS	6.1		
PROPER SHIPPING NAME	Chloroform		
UN NO. ROAD	1888	UK ROAD PACK GR.	III
ADR CLASS NO.	6.1	ADR CLASS	Class 6.1: Toxic substances.
ADR PACK GROUP	III	RID CLASS NO.	6.1
RID PACK GROUP	III	UN NO. SEA	1888
IMDG CLASS	6.1	IMDG PACK GR.	III
UN NO. AIR	1888	AIR CLASS	6.1
AIR PACK GR.	III		

CHLOROFORM AR

15 REGULATORY INFORMATION

LABELLING



Harmful

RISK PHRASES

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.

SAFETY PHRASES

S2	Keep out of the reach of children.
S36/37	Wear suitable protective clothing and gloves.
P10	For use in industrial installations only.

STATUTORY INSTRUMENTS

Chemicals (Hazard Information and Packaging) Regulations. Control of Substances Hazardous to Health.

APPROVED CODE OF PRACTICE

Classification and Labelling of Substances and Preparations Dangerous for Supply. COSHH essentials: Easy steps to control chemicals. Control of Substances Hazardous to Health Regulations.

GUIDANCE NOTES

Workplace Exposure Limits EH40. Introduction to Local Exhaust Ventilation HS(G)37.

NATIONAL REGULATIONS

Control of Substances Hazardous to Health Regulations 2002 (as amended)

16 OTHER INFORMATION

GENERAL INFORMATION

Under REACH Material Safety Datasheets (MSDS) are referred to as Safety Datasheets (SDS).

REVISION COMMENTS

General rewrite

REVISION DATE 16/07/2009

REV. NO./REPL. SDS GENERATED 1

SDS NO. 20339

SAFETY DATA SHEET STATUS

Approved.