ACETYL CHOLINE CHLORIDE AR MSDS

CAS No: 60-31-1 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
Trade name	: Acetylcholine chloride 99% AR
EC no	: 200-468-8
CAS No	: 60-31-1
Product code	: 00550
Formula	: C7H16CINO2
Chemical structure	$H_{3C} \xrightarrow{O} CH_{3}$ $H_{3C} \xrightarrow{C} CH_{3}$ $H_{3C} \xrightarrow{C} CH_{3}$
Synonyms	: Acecoline / 2-(Acetyloxy)-N,N,N-Trimethylethanaminium
1.2. Relevant identified uses of t 1.2.1. Relevant identified uses Use of the substance/mixture	he substance or mixture and uses advised against : Laboratory chemicals, Manufacture of substances
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 V Ludhiana Pb. (141007) +91 9316777775, +91 7707855700 sales@labogens.com - www.Laboger	ïhar , Rahon Road,
1.4. Emergency telephone numb	er
Emorgonov number	+ + 0.1 7707855700 (0.000 m - 6.00 m)

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]

Serious eye damage/eye H319 irritation, Category 2 Skin corrosion/irritation, H315 Category 2 Specific target organ H335 toxicity — Single exposure, Category 3, Respiratory tract irritation

Full text of classification categories and H statements : see section 16

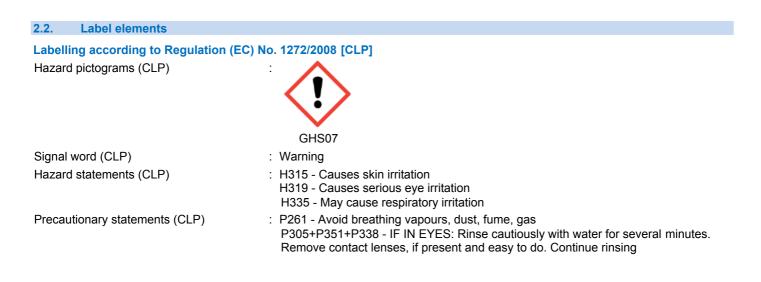
Acetylcholine chloride 99% AR

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Classification according to Directive 67/548/EEC or 1999/45/EC

Xi; R36 Xi; R37 Xi; R38 Full text of R-phrases: see section 16

Adverse physicochemical, human health and environmental effects No additional information available



2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients	
3.1. Substance	
Name : A	ACETYL CHOLINE CHLORIDE AR
CAS No : 6	60-31-1
EC no : 2	200-468-8

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

3.2. Mixture

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measure	
First-aid measures after inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
First-aid measures after skin contact	: Wash with plenty of soap and 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. Do not induce vomiting. Get medical advice/attention.
4.2. Most important symptoms and	effects, both acute and delayed
Symptoms/injuries after inhalation	: May cause respiratory irritation.
Symptoms/injuries after skin contact	: Causes skin irritation.
Symptoms/injuries after eye contact	: Causes serious eye irritation.
4.3. Indication of any immediate me	dical 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 th	e substance or mixture
No additional information available	
5.3. Advice for firefighters	
B 4 42 1 2 6 6 1 42	
Protection during firefighting	 Do not enter fire area without proper protective equipment, including respiratory protection.
SECTION 6: Accidental release measure	protection.
SECTION 6: Accidental release measure	protection.
SECTION 6: Accidental release measure 6.1. Personal precautions, protectiv	protection.
SECTION 6: Accidental release measure	protection.
SECTION 6: Accidental release measure 6.1. Personal precautions, protectiv 6.1.1. For non-emergency personnel	protection. es re equipment and emergency procedures : Evacuate unnecessary personnel.
SECTION 6: Accidental release measure 6.1. Personal precautions, protectiv 6.1.1. For non-emergency personnel Emergency procedures	protection. es re equipment and emergency procedures
SECTION 6: Accidental release measure 6.1. Personal precautions, protectiv 6.1.1. For non-emergency personnel Emergency procedures 6.1.2. For emergency responders	protection. es re equipment and emergency procedures : Evacuate unnecessary personnel.
SECTION 6: Accidental release measure 6.1. Personal precautions, protective 6.1.1. For non-emergency personnel Emergency procedures 6.1.2. For emergency responders Protective equipment	 protection. e equipment and emergency procedures Evacuate unnecessary personnel. Use personal protective equipment as required.
SECTION 6: Accidental release measure 6.1. Personal precautions, protective 6.1.1. For non-emergency personnel Emergency procedures 6.1.2. For emergency responders Protective equipment Emergency procedures	 protection. e equipment and emergency procedures Evacuate unnecessary personnel. Use personal protective equipment as required.
SECTION 6: Accidental release measure 6.1. Personal precautions, protective 6.1.1. For non-emergency personnel Emergency procedures Emergency responders Protective equipment Emergency procedures 6.2. Environmental precautions	 protection. es e equipment and emergency procedures Evacuate unnecessary personnel. Use personal protective equipment as required. Ventilate area.
SECTION 6: Accidental release measure 6.1. Personal precautions, protective 6.1.1. For non-emergency personnel Emergency procedures 6.1.2. 6.1.2. For emergency responders Protective equipment Emergency procedures 6.2. Environmental precautions Avoid release to the environment.	 protection. es e equipment and emergency procedures Evacuate unnecessary personnel. Use personal protective equipment as required. Ventilate area.
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SECTION 6: Accidental release measure 6.1. Personal precautions, protective 6.1.1. For non-emergency personnel Emergency procedures 6.1.2. 6.1.2. For emergency responders Protective equipment Emergency procedures 6.2. Environmental precautions Avoid release to the environment. 6.3. Methods for cleaning up 6.4.	 protection. s re equipment and emergency procedures Evacuate unnecessary personnel. Use personal protective equipment as required. Ventilate area.
 SECTION 6: Accidental release measure 6.1. Personal precautions, protective 6.1.1. For non-emergency personnel Emergency procedures 6.1.2. For emergency responders Protective equipment Emergency procedures 6.2. Environmental precautions Avoid release to the environment. 6.3. Methods and material for contate Methods for cleaning up 6.4. Reference to other sections No additional information available SECTION 7: Handling and storage 	 protection. s re equipment and emergency procedures Evacuate unnecessary personnel. Use personal protective equipment as required. Ventilate area.
 SECTION 6: Accidental release measure 6.1. Personal precautions, protective 6.1.1. For non-emergency personnel Emergency procedures 6.1.2. For emergency responders Protective equipment Emergency procedures 6.2. Environmental precautions Avoid release to the environment. 6.3. Methods and material for contate Methods for cleaning up 6.4. Reference to other sections No additional information available SECTION 7: Handling and storage 7.1. Precautions for safe handling 	 protection. e equipment and emergency procedures : Evacuate unnecessary personnel. : Use personal protective equipment as required. : Ventilate area. inment and cleaning up : On land, sweep or shovel into suitable containers. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible.
 SECTION 6: Accidental release measure 6.1. Personal precautions, protective 6.1.1. For non-emergency personnel Emergency procedures 6.1.2. For emergency responders Protective equipment Emergency procedures 6.2. Environmental precautions Avoid release to the environment. 6.3. Methods and material for contate Methods for cleaning up 6.4. Reference to other sections No additional information available SECTION 7: Handling and storage 	 protection. s re equipment and emergency procedures Evacuate unnecessary personnel. Use personal protective equipment as required. Ventilate area.

7.2. Conditions for safe storage, incl	uding any incompatibilities
Storage conditions	: Keep container tightly closed. Store in a well-ventilated place.
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 Skin and body protection	: Chemical goggles or safety glasses : Wear suitable protective clothing
Respiratory protection	: Wear respiratory protection
SECTION 9: Physical and chemical prop	
9.1. Information on basic physical ar	
Physical state	: Solid
Molecular mass	: 181.66 g/mol
Colour	: White crystalline.
Odour	: No data available
Odour threshold	: No data available
рH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: 146 - 150 °C
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Solubility	: Water: Soluble in water

Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
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
Overheating. Open flame. Heat. Sparks.
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 e	ffects
Acute toxicity	: Not classified
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	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: May cause respiratory irritation.
Specific target organ toxicity (repeated	: Not classified
exposure)	
Aspiration hazard	: Not classified

SECTION 12: Ecological information	
12.1. Toxicity	
No additional information available	
12.2. Persistence and degradability	
No additional information available	
40.0 Discourse define a stantial	
12.3. Bioaccumulative potential No additional information available	
12.4. Mobility in soil	
No additional information available	
12.5. Results of PBT and vPvB asses	sment
No additional information available	
12.6. Other adverse effects	
No additional information available	
SECTION 12: Disposal considerations	
SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
13.1.Waste treatment methodsNo additional information available	
13.1.Waste treatment methodsNo additional information availableSECTION 14: Transport information	
13.1. Waste treatment methods No additional information available	ΓΑ / ADN
13.1.Waste treatment methodsNo additional information availableSECTION 14: Transport information	ΓΑ / ADN
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 13.1. Waste treatment methods No additional information available SECTION 14: Transport information In accordance with ADR / RID / IMDG / IA⁻ 14.1. UN number UN-No. (ADR) UN-No. (IMDG) UN-No. (IATA) 	 Not applicable Not applicable Not applicable
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 13.1. Waste treatment methods No additional information available SECTION 14: Transport information In accordance with ADR / RID / IMDG / IA⁻ 14.1. UN number UN-No. (ADR) UN-No. (IMDG) UN-No. (IMDG) UN-No.(IATA) UN-No. (RID) 14.2. UN proper shipping name 	 Not applicable Not applicable Not applicable Not applicable Not applicable
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 13.1. Waste treatment methods No additional information available SECTION 14: Transport information In accordance with ADR / RID / IMDG / IA⁻ 14.1. UN number UN-No. (ADR) UN-No. (IMDG) UN-No. (IMDG) UN-No. (IATA) UN-No. (RID) 14.2. UN proper shipping name Proper Shipping Name (ADR) Proper Shipping Name (IMDG) Proper Shipping Name (IATA) 	 Not applicable
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-	
IMDG Transport hazard class(es) (IMDG)	: Not applicable
ΙΑΤΑ	
Transport hazard class(es) (IATA)	: Not applicable
ADN	
Transport hazard class(es) (ADN)	: Not applicable
RID	
Transport hazard class(es) (RID)	: Not applicable
14.4. Packing group	
Packing group (ADR)	: Not applicable
Packing group (IMDG)	: Not applicable
Packing group (IATA)	: Not applicable
Packing group (ADN)	: Not applicable
Packing group (RID)	: Not applicable
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

No data available

- Transport by sea

No data available

- Air transport

No data available

- Inland waterway transport

No data available

- Rail transport

No data available

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

Acetylcholine chloride 99% AR is not on the REACH Candidate List Acetylcholine chloride 99% AR is not on the REACH Annex XIV List

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15.1.2. National regulations

Germany

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

Denmark

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

15.2. Chemical safety assessment No additional information available

SECTION 16: Other information

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

Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation
R36	Irritating to eyes
R37	Irritating to respiratory system
R38	Irritating to skin
Xi	Irritant

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