

Safety Data Sheet

Creation Date: 2021/11/04	SDS NO.: 1554E
Product Name: methyl chloroacetate chloroacetic acid methyl	Version: V2.1.0.1
ester	

SECTION 1 Identification of the chemical and supplier

Name of the company: Wuxi High Mountain Hi -tech Development Co.,Ltd. Address of the company: No.1406, Building 3, Calxon Fortune Center, Financial 3rd Street, Wuxi, P. R. of China Post code: 214000 Fax number: +86-510-85883515 Tel number: +86-510-85881876			
E-mail address: info@high-mountain.cn Emergency phone number: +86-510-85881876			

SECTION 2 Hazards identification

Emergency overview

Liquid. Flammable, its vapor and air mixture can form explosive mixture. Toxic if swallowed. Irritating to skin. Risk of serious damage to eyes. Toxic by inhalation. Irritating to respiratory system. Toxic to aquatic organisms.

| Hazard classification according to GHS

According to series standards of GB 30000-2013: Rules for classification and labelling of chemicals. (Please refer to 16th chapter of SDS), hazard classification as following: Flammable Liquids, Category 3; Acute Toxicity – Oral, Category 3; Skin Corrosion/Irritation, Category 2; Serious Eye Damage/Irritation, Category 1; Acute Toxicity – Inhalation, Category 3; Specific Target Organ Toxicity-Single Exposure :Criteria for respiratory tract irritation, Category 3; Hazardous To The Aquatic Environment – Short-Term (Acute) Hazard, Category 2.

Label elements Hazard pictograms



Hazard statements: Flammable liquid and vapour, Toxic if swallowed, Causes skin irritation, Causes serious eye damage, Toxic if inhaled, May cause respiratory irritation, Toxic to aquatic life.

Precautionary statements

Prevention: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.Keep container tightly closed.Ground and bond container and receiving equipment.Use explosion-proof [electrical/ventilating/lighting] equipment.Use non-sparking tools.Take action to prevent static discharges.Do not breathe dust/fume/gas/mist/vapours/spray.Wash face and hands thoroughly after handling.Do not eat, drink or smoke when using this product.Use only outdoors or in a well-ventilated area.Avoid release to the environment.Wear protective gloves/protective clothing/eye protection/face protection.

Response: Call a POISON CENTER/doctor, if you feel unwell.Specific treatment (see ... on this label).Rinse mouth.IF SWALLOWED: Immediately call a POISON CENTER/doctor.IF INHALED: Remove person to fresh air and keep comfortable for breathing.If skin irritation occurs: Get medical advice/attention.Take off contaminated clothing and wash it before reuse.In case of fire: Use suitable fire extinguishing medium to extinguish.IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Storage: Store locked up.Store in a well-ventilated place. Keep container tightly closed.Store in a well-ventilated place. Keep cool.

Disposal: Dispose of contents/container in accordance with local/regional/national/ international regulations.

Hazard description

Physical and chemical hazards

Flammable liquids, its vapor and air mixture can form explosive mixture.

Health hazards

Cough.Shortness of breath.Sore throat.Abdominal pain.Nausea.Vomiting.Diarrhoea.MAY BE ABSORBED! Redness.Pain.Skin burns.Redness.Pain.Blurred vision.

Environmental hazards

This product is toxic to aquatic life. Please refer to 12th chapter of SDS.

SECTION 3 Composition/information on ingredients

√Substance Mixture

Component	Concentration/Range	CAS No.
Methyl chloroacetate	>= 99	96-34-4

SECTION 4 First aid measures

Description of first aid measures

General advice: Immediate medical attention is required. Show this safety data sheet (SDS) to the doctor in attendance.

Skin contact: Remove contaminated clothes.Rinse and then wash skin with water and soap.Refer for medical attention.

Eye contact: First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.

Inhalation: Fresh air, rest.Refer for medical attention.

Ingestion: Rinse mouth.Do NOT induce vomiting.Refer for medical attention.

Advice for protecting the rescuer: Remove all sources of ignition and increase ventilation. Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Use personal protective equipment including respirator.

Special note to the doctor: Treat symptomatically. Symptoms may be delayed.

SECTION 5 Firefighting measures

| Hazard characteristics

Will form explosive mixtures with air. Fire exposed containers may vent contents through pressure relief valves thereby increasing fire intensity and/ or vapour concentration. Vapours may travel to source of ignition and flash back. Liquid and vapour are flammable. May emit poisonous fumes on fire. Containers may explode when heated. May expansion or decompose explosively when heated or involved in fire.

Extinguishing method and media

Suitable extinguishing media: Dry chemical, carbon dioxide or alcohol-resistant foam.

Unsuitable extinguishing media: Do not use a solid water stream as it may scatter or spread fire.

| Fire precautions and measures

As in any fire, wear self-contained breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective gear. Fight fire from a safe distance, with adequate cover. Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Avoid breathing vapours and contacting with skin and eye. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. Emergency personnel wear positive pressure self-contained breathing apparatus. Wear protective and anti-static clothing. Wear chemical impermeable gloves. Fully encapsulating, vapor protective clothing should be worn for spills and leaks with no fire. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Use personal protective equipment. Avoid breathing vapours, mist, gas or dust.

| Environmental precautions

Prevent further leakage or spillage if safe to do so. Discharge into the environment must be avoided.

| Methods and materials for containment and cleaning up

Absorb spilled material in dry sand or inert absorbent. In case of large amount of spillage, contain a spill by bunding. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

SECTION 7 Handling and storage

| Precautions for handling

Avoid inhalation of vapors. Use only non-sparking tools. To prevent fire caused by electrostatic discharge steam, equipment on all metal parts should be grounded. Use explosion proof equipment. Handling is performed in a well ventilated place. Wear suitable protective equipment. Avoid contact with skin and eyes. Keep away from heat/sparks/open flames/ hot surfaces.

Precautions for storage

Keep containers tightly closed. Keep containers in a dry, cool and well-ventilated place. Keep away from heat/sparks/open flames/hot surfaces. Store away from incompatible materials and foodstuff containers. Storage temperature generally should not be higher than 32 °C, relative humidity generally should not be higher than 80%.

SECTION 8 Exposure controls/personal protection

Control parameters

Occupational Exposure limit values

No information available.

Biological limit values

No information available.

Monitoring methods

EN 14042 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents. GBZ/T 160.1~GBZ/T 160.81-2004 Determination of toxic substances in workplace air (Series standard).

Engineering controls

Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location. Use explosion-proof electrical/ventilating/lighting/equipment. Set up emergency exit and necessary risk-elimination area.

Respiratory protection

If exposure limits are exceeded or if irritation or other symptoms are experienced, use a full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges.

Eye protection

Tightly fitting safety goggles (approved by EN 166(EU) or NIOSH (US).

Skin and body protection

Wear fire/flame resistant/retardant clothing and antistatic boots.

Hand protection

Wear protective gloves (such as butyl rubber), passing the tests according to EN 374(EU), US F739 or AS/NZS 2161.1 standard.

Other protection

Smoking, eating and drinking water is forbidden in the workplace. After work, shower and change clothes. To maintain good health habits.

SECTION 9 Physical and chemical properties

Appearance: Colorless liquid			
pH (Specified the concentration) : No information available	Odor: Pungent odor		
Initial boiling point and boiling range(°C): 129.5	Melting point/freezing point(°C): -32.1		
Vapor density(Air = 1): 3.7	Density: No information available		
Saturated vapor pressure (kPa): 650Pa (20°C)	Relative density(Water=1): 1.2		
Evaporation rate: No information available	Viscosity(mm2/s): No information available		
Flash point(°C): 51.67	N-octanol/water partition coefficient: 0.76		
Decomposition temperature(°C): No information available	Auto-ignition temperature(°C): 465		
Upper/lower explosive limits[%(v/v)]: Upper limit : 18.5 ; Lower limit : 7.5			
Solubility: No information available	Flammability: Flammable		

SECTION 10 Stability and reactivity

Stability

Stable under proper operation and storage conditions.

Incompatible materials

No information available

| 应 Conditions to avoid

Incompatible materials, heat, flame and spark.

| Hazardous reactions

No information available

Decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11 Toxicological information

Acute toxicity

COMPONENT	CAS NO.	LD ₅₀ (ORAL)	LD ₅₀ (DERMAL)	LC50(INHALATION)-4H
Methyl chloroacetate 96-34-4	06 24 4	240mg/kg(Mouse)	No information	No information
	90-34-4		available	available

Carcinogenicity

ID	CAS NO.	COMPONENT	IARC	NTP	
1	96-34-4	Methyl chloroacetate	Not Listed	Not Listed	

| Skin irritation/corrosion

Causes skin irritation(Category 2)

| Eye irritation/corrosion

Causes serious eye damage(Category 1)

Skin sensitization

No information available

| Respiratory sensitization

No information available

| Germ cell mutagenicity

No information available

Reproductive toxicity

No information available

STOT-single exposure

May cause respiratory irritation(Category 3)

STOT-repeated exposure

No information available

Aspiration hazard

No information available

SECTION 12 Ecological information

Acute aquatic toxicity

No information available.

Chronic aquatic toxicity

No information available.

| Persistence and degradability

No information available

Bioaccumulative potential

No information available

Mobility in soil

No information available

Other deleterious effect

No information available.

SECTION 13 Disposal considerations

Disposal methods

Product: Before disposal should refer to the relevant national and local laws and regulation. Recommend the use of incineration disposal.

Contaminated packaging: Containers may still present chemical hazard when empty. Keep away from hot and ignition source of fire. Return to supplier for recycling if possible.

Disposal considerations

Refer to section 13.1and 13.2.

SECTION 14 Transport information

UN number: 2295
UN proper shipping name: METHYL CHLOROACETATE
Transport hazard class: 6.1+3
Packing group: I
Label



| Marine pollutant (Yes/No): 否

| Methods of packing

Metal drum, removable head. Metal drum, removable head. Ampoule outside the ordinary wooden box. Threaded glass, metal cover pressure bottles, plastic bottles or metal (cans) outside the ordinary wooden box etc. Threaded glass, metal cover pressure bottles, plastic bottles or metal (cans) outside the ordinary wooden box etc. thread mouth glass bottles, plastic bottles or tinplate barrels (LP), full floor grille boxes, fibreboard or plywood box etc. Packaging as recommended by manufacturer.

Precautions for transport

Transit should be anti-exposure, rain, high temperature. Strictly prohibited shipping or transportation with acids, alkalis, oxidants, food and food additives etc. Shipment of the goods vehicle exhaust pipe must be equipped with fire retardant devices, prohibit using mechanical equipment and tools of which easy to produce sparks. Transit should be anti-exposure, anti-rain, anti-high temperature. Transportation used tank (tank) cars

should be grounded chain, tank can be installed to reduce the partition hole static electricity shocks. Strictly prohibited shipping or transportation withoxidants, acids, food and food additives etc. When bulk transport, Prohibit the use of cement or wooden boats. Transport vehicles should be equipped with the appropriate variety and quantity of fire equipment and emergency equipment leakage during transport. Before transport, should be preceded by checking whether container integrity, sealing. The transport unit must be placarded and marked in accordance with relevant transporting requirements.

SECTION 15 Regulatory information

| Regulatory information

COMPONENT	Α	В	С	D	E	F	G	Н
Methyl chloroacetate	Listed	Not Listed						

[A] Catalog of Hazardous Chemicals(2015 Edition), Notice 5th 2015, China State Administration of Work Safety.

[B] Catalog of Priority Hazardous Chemicals for Environment Management, Notice 33th 2014, Ministry of Environmental Protection of PRC.

[C] List of Toxic Chemicals Restricted to be Imported/Exported in China, Notice 85th 2013, Ministry of Environmental Protection of PRC.

[D] Catalog of Stupefacient and Psychotropic Substances(2013Edition), Notice 230th 2013, China Food and Drug Administration.

[E] Catalog of Hazardous Chemicals for Priority Management(First and Second batches), Notice 95th, 2011, Notice 12th 2013, China State Administration of Work Safety.

(F) List of Ozone Depletion Chemicals Controlled to be Imported/Exported in China (First to Sixth batches), Notice from 2000 to 2012 Ministry of Environmental Protection of PRC.

[G] Dangerous Chemicals Directory Used to Manufacure Exploder(2011 Edition), Notice 25th Nov. 2011, Ministry of Public Security of PRC1.

[H] Catalog of Highly Toxic Chemicals, Notice 142th 2003, China Ministry of Health.

SECTION 16 Others

Latest Revision Date: 2021/11/04

Revision explanation

This Safety Data Sheet (SDS) was prepared according to standards of 《Safety data sheet for chemical products——Content and order of sections》 (GB/T16483-2008) and 《Guidance on the compilation of safety data sheet for chemical products» (GB/T17519-2013). The result of GHS classification according to 《Guidance on the Catalog of Hazardous Chemicals(2015 Edition) (trial)》 and series standards of 《Rules for classification and labelling of chemicals» (GB 30000.2-2013~GB 30000.29-2013).

Reference

- [1] IPCS: The International Chemical Safety Cards (ICSC) ,website: http://www.ilo.org/dyn/icsc/showcard.home.
- [2] IARC , website: http://www.iarc.fr/.
- [3] OECD: The Global Portal to Information on Chemical Substances, website: http://www.echemportal.org/echemportal/index?pageID=0®uest_locale=en.
- [4] CAMEO Chemicals, website: http://cameochemicals.noaa.gov/search/simple.
- [5] NLM: ChemIDplus, website: http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp.

- [6] EPA: Integrated Risk Information System, website: http://cfpub.epa.gov/iris/.
- [7] U.S. Department of Transportation: ERG, website: http://www.phmsa.dot.gov/hazmat/library/erg.
- [8] Germany GESTIS-database on hazard substance, website: http://gestis-en.itrust.de/.

Abbreviations and acronyms

CAS – Chemical Abstracts Service	CMR - Carcinogens, mutagens or substances toxic to		
	reproduction		
PC-STEL- Short term exposure limit	PC-TWA - Time Weighted Average		
DNEL - Derived No Effect Level	IARC - International Agency for Research on Cancer		
RPE - Respiratory Protective Equipment	PNEC –Predicted No Effect Concentration		
LC50 - Lethal Concentration 50%	LD50 - Lethal Dose 50%		
NOEC -No Observed Effect Concentration	EC ₅₀ - Effective Concentration 50%		
PBT - Persistent, Bioaccumulative, Toxic	POW - Partition coefficient Octanol:Water		
BCF - Bioconcentration factor (BCF)	vPvB - very Persistent, very Bioaccumulative		
IMDG-International Maritime Dangerous Goods	ICAO/IATA-International Civil Aviation		
	Organization/International Air Transportation Association		
UN-The United Nations	ACGIH-American Conference of Governmental Industrial		
	Hygienists		
NFPA-National Fire Protection Association	OECD-Organization for Economic Co-operation and		
	Development		

Disclaimer

This Safety Data Sheet (SDS) was prepared according to GB/T16483 and GB/T17519. The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user' s reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.