Safety Data Sheet

Trimethylamine hydrochloride

Version: V2.0.0.1

Report No.: BWJ5199-2016-MSDS-US

Creation Date: 2025/10/14

Revision Date: -



*Prepared according to American OSHA HCS-2024 (29 CFR 1910.1200)

1	Identification
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| Product identifier

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Product Name	Trimethylamine hydrochloride
Cat No.	BWJ5199-2016
CAS No.	593-81-7
EC No.	209-810-0
Molecular Formula	C3H10CIN

Recommended use of the product and restrictions on use

Relevant identified uses	Please consult manufacturer.
Uses advised against	Please consult manufacturer.

Details of the supplier of the Safety Data Sheet

Name of the company	Weiyel Inc
Address of the company	Hedian Light Industrial Park, Chengguan Town, Shangcheng County, Xinyang
	City, Henan Province, China
Post code	465350
Telephone number	010-58103678
Fax number	010-84840368
E-mail address	info@weiyel.com

| Emergency phone number

Emergency phone number	010-58103678

2 Hazard(s) identification

Hazard classification according to 29 CFR 1910.1200

Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Irritation	Category 2B
Acute Toxicity - Inhalation	Category 4
Specific target organ toxicity -	Category 3
single exposure; respiratory	
tract irritation	

Label elements

Trimethylamine hydrochloride	Version: V2.0.0.1 Revision Date:
Hazard pictograms	<u>•</u>
Signal word	Warning Warning
Hazard statements	
H315	Causes skin irritation
H320	Causes eye irritation
H332	Harmful if inhaled
H335	May cause respiratory irritation
Precautionary statements	
Prevention	
P261	Avoid breathing dust/fume.
P264	Wash hands and other parts of the body (if related) thoroughly after handling.
P271	Use only outdoors or with adequate ventilation.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
◆ Response	
P321	Specific treatment (see related instructions on the label).
P302+P352	IF ON SKIN: Wash with plenty of water.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P362+P364	Take off contaminated clothing and wash it before reuse.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Storage	
P405	Store locked up.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
◆ Disposal	
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
Other hazards	
	Not applicable.
Hazard description	
•	orde
 Physical and chemical haz 	
	No information available
♦ Health hazards	
Inhaled	Inhalation of dusts or fumes, especially for prolonged periods, may produce respiratory discomfort and occasionally, distress. Inhalation of dusts or fumes, generated by the product during the course of normal handling, may produce severely toxic effects; these may be harmful.
Ingestion	Accidental ingestion of the product may be harmful to the health of the individual.
900.1011	The state of the market may be harman to the meaning of the market

Skin Contact The product can cause skin irritation following direct contact with the skin.

Eye	This product may cause mild eye irritation.
 Environmental hazards 	
	Please refer to 12th chapter of SDS.

Composition/information on ingredients

Substance/mixture

Substance

Component	CAS No.	EC No.	Concentration (wt, %)
Trimethylammonium chloride	593-81-7	209-810-0	99.9

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.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.
Skin contact	Take off contaminated clothing and shoes immediately. Wash off with plenty of soap and water for at least 15 minutes and consult a physician if feel uncomfortable.
Ingestion	Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.
Inhalation	Move victim into fresh air. If breathing is difficult, give oxygen. Do not use mouth to mouth resuscitation if victim ingested or inhaled the substance. If not breathing, give artificial respiration and consult a physician immediately.
Protecting of first-aiders	Ensure that medical personnel are aware of the substance involved. Take precautions to protect themselves and prevent spread of contamination.

Most important symptoms/effects, acute and delayed

Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.

Indication of any immediate medical attention and special treatment needed

- 1 Treat symptomatically.
- 2 Symptoms may be delayed.

Fire-fighting measures

| Extinguishing media

Suitable extinguishing media	Use extinguishing media suitable for surrounding area.
Unsuitable extinguishing media	There is no restriction on the type of extinguisher which may be used.

Specific hazards arising from the substance or mixture

- 1 Development of hazardous combustion gases or vapor possible in the event of fire.
- 2 May expansion or decompose explosively when heated or involved in fire.

Special protective equipment and precautions for fire-fighters

Trim	ethylamine hydrochloride Version : V2.0.0.1 Revision Date : -
1	As in any fire, wear self-contained breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective gear.
2	Fight fire from a safe distance, with adequate cover.
3	Prevent fire extinguishing water from contaminating surface water or the ground water system.
6	Accidental release measures
Per	sonal precautions, protective equipment and emergency procedures
1	Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges.
2	Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.
3	Use personal protective equipment,do not breathe dust/fume.
Env	vironmental precautions
1	Prevent further leakage or spillage if safe to do so.
2	Discharge into the environment must be avoided.
Me	thods and materials for containment and cleaning up
1	Cut off the source of the leak as much as possible.
2	Keep leaks in a ventilated place.
3	Isolation of contaminated areas and restrictions on access.
4	It is recommended that emergency personnel wear dust masks.
5	Collect the spill with a clean shovel and place it in a clean, dry, loosely closed container and move the container
	away from the leak.
6	Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.
7	Handling and storage
Pre	cautions for safe handling
1	Handling is performed in a well ventilated place.
2	Wear suitable protective equipment.
3	Avoid contact with skin and eyes.
4	Keep away from heat/sparks/open flames/ hot surfaces.
Co	nditions for safe storage, including any incompatibilities
1	Keep containers tightly closed.
2	Keep containers in a dry, cool and well-ventilated place.
3	Keep away from heat/sparks/open flames/hot surfaces.
4	Store away from incompatible materials and foodstuff containers.
8	Exposure controls/personal protection
Coi	ntrol parameters
-	ccupational Exposure limit values
Eng	gineering controls

Ensure adequate ventilation, especially in confined areas.

2	Ensure that eyewash stations and safety showers are close to the workstation location.
3	Use explosion-proof electrical/ventilating/lighting/equipment.
1	Set up emergency, evit and necessary risk-elimination area

| Personal protection equipment

General requirement	
Eye protection	Must wear appropriate safety goggles.
Hand protection	Must wear appropriate chemical protective gloves.
Respiratory protection	Must wear appropriate personal respiratory protective equipment.
Skin and body protection	Must wear appropriate chemical protective clothing and chemical resistant shoes.

9 Physical and chemical properties and safety characteristics

| Physical and chemical properties

1 /	
Appearance (physical state, color, etc.)	white or light yellow solid powder
Odor	No information available
Odor threshold	No information available
рН	No information available
Melting point/freezing point(°C)	277.5
Initial boiling point and boiling	> 200
range(°C)	
Flash point(Closed cup,°C)	Not applicable
Evaporation rate	Not applicable
Flammability	No information available
Upper/lower explosive limits[%(v/v)]	Upper limit : No information available ; Lower limit : No information available
Vapor pressure	0.000221Pa (25°C)
Vapor density(Air = 1)	Not applicable
Relative density(Water=1)	1.04 (20 °C)
Solubility	758g/L (20 °C)
n-octanol/water partition	<-2.25 (25 °C)
coefficient	
Auto-ignition temperature(°C)	No information available
Decomposition temperature(°C)	200
Kinematic viscosity	Not applicable

10 Stability and reactivity

| Stability and reactivity

<u>'</u>	
Reactivity Contact with incompatible substances can cause decomposition or othe chemical reactions.	
Chemical stability	Stable under proper operation and storage conditions.
Possibility of hazardous	No information available.
reactions	

Conditions to avoid	Incompatible materials, heat, flame and spark.	
Incompatible materials	No information available.	
Hazardous decomposition Under normal conditions of storage and use, hazardous decomposition		
products should not be produced.		

11 Toxicological information

Acute toxicity

Acute toxicity No information available

Carcinogenicity

Component	List of carcinogens by the IARC Monographs	Report on Carcinogens by NTP	OSHA Carcinogen List
Trimethylammonium chloride	Not Listed	Not Listed	Not Listed

Others

Trimethylammonium chloride(Component)			
Skin corrosion/irritation			
Serious eye damage/irritation Causes eye irritation(Category 2B)			
Skin sensitization Based on available data, the classification criteria are not met			
Respiratory sensitization Based on available data, the classification criteria are not met			
Reproductive toxicity Based on available data, the classification criteria are not met			
STOT-single exposure	May cause respiratory irritation(Category 3)		
STOT-repeated exposure	Based on available data, the classification criteria are not met		
Aspiration hazard Based on available data, the classification criteria are not met			
Germ cell mutagenicity Based on available data, the classification criteria are not met			

12 Ecological information

Acute aquatic toxicity

Component	Fish	Crustaceans	Algae or other aquatic
			plants
Trimethylammonium	LC ₅₀ : > 500mg/L	EC ₅₀ : 259.13mg/L	ErC ₅₀ : 0.15mg/L
chloride	(96h)(Fish)	(48h)(Crustaceans)	(96h)(Algae)

| Chronic aquatic toxicity

Chronic aquatic toxicity No information available

| Persistence and degradability

Component	Persistence (water/soil)	Persistence (air)
Trimethylammonium chloride	High	High

| Bioaccumulative potential

Component Bioaccumulative potential		Comments
Trimethylammonium	Low	Log Kow=0.0386

-1.1	
cnioriae	
I .	

Mobility in soil

Component	log Koc	Remark
Trimethylammonium	1.172	
chloride		

13 Disposal considerations

| Disposal considerations

Waste chemicals	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 recommendations	Refer to section waste chemicals and contaminated packaging.

14 Transport information

Label and Mark

Transporting Label Not applicable

| IMDG-CODE

IMDG-CODE I NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS	IMDG-CODE	NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS
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| IATA-DGR

IATA-DGR NOT REGULATED FOR TRANSPORT OF DANGEROUS	GOODS
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UN-ADR

UN-ADR NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Transport in bulk according to IMO instruments

◆ Transport in bulk according to Annex II of MARPOL and the IBC code

Not Available

◆ Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Not Available

◆ Transport in bulk in accordance with the IGC Code

Not Available

Others

Precautions for transport	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.

15 Regulatory information

International chemical inventory

Component	A	В	С	D	E	F	G	Н	I	J	K	L	M
Trimethylammonium chloride	√	√	√	√	√	√	√	√	×	×	×	√	√

- [A] China Inventory of Existing Chemical Substances(IECSC)
- [B] European Inventory of Existing Commercial Chemical Substances(EC inventory)
- [C] United States Toxic Substances Control Act Inventory(TSCA)
- [D] Canadian Domestic Substances List(DSL)
- [E] New Zealand Inventory of Chemicals(NZIoC)
- [F] Philippines Inventory of Chemicals and Chemical Substances(PICCS)
- [G] Korea Existing Chemicals Inventory(KECL)
- [H] Australian. Inventory of Industrial Chemical (AIICS)
- [1] Japan Inventory of Existing & New Chemical Substances(ENCS)
- [J] Thailand Existing Chemicals Inventory(TECI)
- [K] Mexico National Inventory of Chemical Substances (INSQ)
- [L] Russia Inventory of Existing Substances (DRAFT)
- [M] Inventory of Existing Chemical Substances in Taiwan, China (TCSI)

List of Chemical Substances under International Conventions

Component	Α	В	С
Trimethylammonium chloride	×	×	×

- [A] The Montreal Protocol on Substances that Deplete the Ozone Layer
- [B] Stockholm Convention on Persistent Organic Pollutants (POPs)
- [C] Rotterdam Convention on the prior informed consent procedure for certain hazardous chemicals and pesticides in international trade

US chemical inventory

Component	Α	В	С	D	E	F	G	Н
Trimethylammonium chloride	×	×	×	×	×	×	×	×

- [A] US Clean Air Act (CAA)- Section 112, Hazardous Air Pollutants
- [B] US SARA 302- Extremely Hazardous Substance List
- [C] US CERCLA- Hazardous Substances List
- [D] US Massachusetts Right-to-Know Substance List
- [E] US New Jersey Right to Know Hazardous Substance List
- [F] US Pennsylvania Right to Know Hazardous Substance List
- [G] US New York City Right-to-Know Hazardous Substance List
- [H] US California Proposition 65 List

Note:

- " $\sqrt{}$ " Indicates that the substance included in the regulations.
- "x" No data or not included in the regulations.

16 Other information

Information on revision

Creation Date	2025/10/14
Revision Date	-
Reason for revision	-

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: https://www.echemportal.org/echemportal/.
- [4] CAMEO Chemicals, website: http://cameochemicals.noaa.gov/search/simple.

- Version: V2.0.0.1 Revision Date: -
- [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	UN	The United Nations
PC-STEL	Short term exposure limit	OECD	Organization for Economic Co-operation and Development
PC-TWA	Time Weighted Average	IMDG- CODE	International Maritime Dangerous Goods CODE
MAC	Maximum Allowable Concentration	IARC	International Agency for Research on Cancer
DNEL	Derived No Effect Level	ICAO	International Civil Aviation Organization
PNEC	Predicted No Effect Concentration	IATA	International Air Transportation Association
NOEC	No Observed Effect Concentration	ACGIH	American Conference of Governmental Industrial Hygienists
LC ₅₀	Lethal Concentration 50%	NFPA	National Fire Protection Association
LD ₅₀	Lethal Dose 50%	NTP	National Toxicology Program
EC ₅₀	Effective Concentration 50%	PBT	Persistent, Bioaccumulative, Toxic
EC_X	Effective Concentration X%	vPvB	very Persistent, very Bioaccumulative
Pow	Partition coefficient Octanol: Water	CMR	Carcinogens, mutagens or substances toxic to reproduction
BCF	Bioconcentration factor	RPE	Respiratory Protective Equipment
ED	Endocrine disruptor	HCS	Hazard Communication Standard

Disclaimer

This Safety Data Sheet (SDS) was prepared according to OSHA HCS-2024. 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.