Safety Data Sheet

8 Mix volatile halogenated hydrocarbons in

methanol

Version: V2.0.0.1

Report No.: BWQ0391-2016-MSDS-US

Creation Date: 2025/10/21

Revision Date: -

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



1 Identification

| Product identifier

·	
Product Name	8 Mix volatile halogenated hydrocarbons in methanol
Cat No.	BWQ0391-2016
CAS No.	Not applicable
EC No.	Not applicable
Molecular Formula	Not applicable

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

Flammable liquids	Category 2
Acute Toxicity - Oral	Category 3
Acute Toxicity - Dermal	Category 3
Acute Toxicity - Inhalation	Category 3
Specific target organ toxicity -	Category 1
single exposure	

Label elements



Signal word D

Danger

Hazard statements

H225	Highly flammable liquid and vapour
H301	Toxic if swallowed
H311	Toxic in contact with skin
H331	Toxic if inhaled
H370	Causes damage to organs

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| Precautionary statements

Prevention

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof [electrical/ventilating/lighting] equipment.
P242	Use non-sparking tools.
P243	Take action to prevent static discharges.
P260	Do not breathe gas/mist/vapour/spray.
P264	Wash hands and other parts of the body (if related) thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or with adequate ventilation.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

Response

Response	
P321	Specific treatment (see related instructions on the label).
P330	Rinse mouth.
P302+P352	IF ON SKIN: Wash with plenty of water.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P361+P364	Take off immediately all contaminated clothing and wash it before reuse.
P370+P378	Small fire: dry chemical, CO_2 or water spray; Large fire: dry chemical, CO_2 , alcohol-resistant foam or water spray; Fire involving tanks, rail tank cars or highway tanks: Fight fire from maximum distance or use unmanned master stream devices or monitor nozzles. Cool containers with flooding quantities of water until well after fire is out.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse
	affected areas with water [or shower].

Storage

P405	Store locked up.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P403+P235	Store in a well-ventilated place. Keep cool.

Disposal

P501	Dispose of contents/container in accordance with local/regional/national/
	international regulations.

Other hazards

Not applicable.

| Hazard description

Physical and chemical hazards

Highly flammable liquids, its vapor and air mixture can for	orm explosive mixture.
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Health hazards

·		
Inhaled	Cough. Dizziness. Headache. Nausea. Weakness. Visual disturbance.	
Ingestion	Abdominal pain. Shortness of breath. Vomiting. Convulsions. Unconsciousness. (Further see Inhalation).	
Skin Contact	MAY BE ABSORBED! Dry skin. Redness.	
Eye	Redness. Pain.	

Environmental hazards

Please refer to 12th chapter of SDS.

3 Composition/information on ingredients

Substance/mixture

Mixture

Component	CAS No.	EC No.	Concentration (wt, %)
Methanol	67-56-1	200-659-6	99.996
Dichloromethane	75-09-2	200-838-9	0.0005
Chloroform	67-66-3	200-663-8	0.0005
Carbon tetrachloride	56-23-5	200-262-8	0.0005
Trichloroethylene	79-01-6	201-167-4	0.0005
bromodichloromethane	75-27-4	200-856-7	0.0005
Tetrachloroethylene	127-18-4	204-825-9	0.0005
Dibromochloromethane	124-48-1	204-704-0	0.0005
Bromoform	75-25-2	200-854-6	0.0005

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	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
Skin contact	Remove contaminated clothes. Rinse skin with plenty of water or shower. Refer for medical attention.
Ingestion	Induce vomiting (ONLY IN CONSCIOUS PERSONS!). Refer for medical attention.
Inhalation	Fresh air, rest. Refer for medical attention.

O IVI	ix voiatile halogenated hydrocal	TDOTIS III III Etilalioi VEISIOII . VZ.0.0.1 REVISIOII Date
	Protecting of first-aiders	Ensure that medical personnel are aware of the substance involved. Take precautions to protect themselves and prevent spread of contamination.
Мо	st important symptoms/eff	ects, acute and delayed
1	Substance accumulation, in to long-term occupational expos	the human body, may occur and may cause some concern following repeated o sure.
Ind	ication of any immediate r	medical attention and special treatment needed
1	Treat symptomatically.	
2	Symptoms may be delayed.	
5	Fire-fighting measure	·S
Ext	inguishing media	
Sı	uitable extinguishing media	Small fire: dry chemical, ${\rm CO_2}$ or water spray; Large fire: dry chemical, ${\rm CO_2}$, alcohol-resistant foam or water spray; Fire involving tanks, rail tank cars or highway tanks: Fight fire from maximum distance or use unmanned master stream devices or monitor nozzles. Cool containers with flooding quantities of water until well after fire is out.
Jnsu	itable extinguishing media	No information available.
S	pecific hazards arising fro	om the substance or mixture
1	May emit poisonous fumes o	n fire.
2	Development of hazardous c	combustion gases or vapor possible in the event of fire.
3	May expansion or decompos	e explosively when heated or involved in fire.
Sne	ecial protective equipmen	t and precautions for fire-fighters
1		ained breathing apparatus (MSHA/NIOSH approved or equivalent) and full
2	Fight fire from a safe distance	e, with adequate cover.
3	Prevent fire extinguishing wa	ter from contaminating surface water or the ground water system.
6	Accidental release me	easures
Pei	rsonal precautions, protec	etive equipment and emergency procedures
1	Fully encapsulating, vapor pr	rotective clothing should be worn for spills and leaks with no fire.
2	Do not touch or walk through	spilled material.
3	Do not touch damaged conta	ainers or spilled material unless wearing appropriate protective clothing.
4	Use personal protective equi	pment,do not breathe gas/mist/vapour/spray.
5	Ensure adequate ventilation. discharges.	Remove all sources of ignition. Take precautionary measures against static
6	Evacuate personnel to safe a	areas. Keep people away from and upwind of spill/leak.
En	vironmental precautions	
1	Prevent further leakage or sp	billage if safe to do so.
2	Discharge into the environme	-
Me	thods and materials for co	ontainment and cleaning up
1	Do not touch or cross spills.	
2	Cover with anti-solvent foam	to reduce evaporation.

•	
3	It is recommended that emergency personnel wear positive pressure self-contained breathing apparatus and
	wear anti-virus suits.
4	Spray water disperses the vapor and dilutes the liquid spill.
5	Do not touch broken containers and spills before putting on appropriate protective clothing.
6	Cut off the source of the leak as much as possible.
7	Keep leaks in a ventilated place.
8	Absorb spilled material in dry sand or inert absorbent. In case of large amount of spillage, contain a spill by
	bunding.
9	Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.
10	Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in
	container.

7 Handling and storage

| Precautions 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.

Conditions 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.

8 Exposure controls/personal protection

| Control parameters

◆Occupational exposure limit values

Component	Country/Region	Limit value - Eight hours		Limit value - Short term	
	Ī	ppm	mg/m³	ppm	mg/m³
Methanol	Japan - JSOH(2024–202 5)	200	260	-	-
	Permissible exposure standards for workers in the workplace	200	262	250	327.5
	Australia	200	262	250	328
	Canada - Ontario	200	-	250	-
	European Union	200	260	-	-
	New Zealand	200	262	250	328
Dichloromethane	Japan - JSOH(2024–202 5)	50	173	-	-
	Permissible exposure standards for	50	174	75	217.5

	workers in the workplace				
	Australia	50	174	-	-
	Canada - Ontario	50	-	-	-
	European Union	100	353	200	706
	New Zealand	50	174	-	-
Chloroform	Japan - JSOH(2024–202 5)	3	14.7	-	-
	Permissible exposure standards for workers in the workplace	-	-	-	-
	Australia	2	10	-	-
	Canada - Ontario	10	-	-	-
	European Union	2	10	-	-
	New Zealand	2	9.9	-	-
Carbon tetrachloride	Japan - JSOH(2024–202 5)	5	31	-	-
	Permissible exposure standards for workers in the workplace	2	13	4	19.5
	Australia	0.1	0.63	-	-
	Canada - Ontario	2	-	3	-
	European Union	1	6.4	5	32
	New Zealand	0.1	0.63	-	-
Trichloroethylene	Japan - JSOH(2024–202 5)	25	135	-	-
	Permissible exposure standards for workers in the workplace	50	269	75	336.25
	Australia	10	54	40	216
	Canada - Ontario	10	-	25	-
	European Union	10	54.7	30	164.1
	New Zealand	10	55	25	135
Tetrachloroethylene	Permissible exposure standards for workers in the workplace	50	339	75	423.75
	Australia	50	340	150	1020
	Canada - Ontario	25	-	100	-

	European Union	20	138	40	275
	New Zealand	20	136	40	271
	USA - ACGIH	25	-	100	-
Bromoform	Japan - JSOH(2024–202 5)	1	10.3	-	-
	Permissible exposure standards for workers in the workplace	0.5	5.2	1.5	10.4
	Australia	0.5	5.2	-	-
	Canada - Ontario	0.5	-	-	-
	New Zealand	0.5	5.2	-	-
	USA - ACGIH	0.5	-	-	-

| Engineering controls

1	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.
4	Set up emergency exit and necessary risk-elimination area.

| Personal protection equipment

General requirement	
Eye protection	Must wear appropriate safety goggles.
Hand protection	Must wear anti static chemical protective gloves.
Respiratory protection	Must wear appropriate personal dust proof gas mask.
Skin and body protection	Must wear anti static chemical protective clothing and anti static shoes.

9 Physical and chemical properties and safety characteristics

| Physical and chemical properties

Appearance (physical state,	clear or yellow liquid
color, etc.)	
Odor	No information available
Odor threshold	No information available
рН	No information available
Melting point/freezing point(°C)	-98 (Methanol)
Initial boiling point and boiling	65 (Methanol)
range(°C)	
Flash point(Closed cup,°C)	9 (Methanol)
Evaporation rate	No information available
Flammability	No information available
Upper/lower explosive	Upper limit: 50 (Methanol); Lower limit: 6 (Methanol)
limits[%(v/v)]	

Vapor pressure	12.9 kPa (20°C,Methanol)
Vapor density(Air = 1)	1.1 (Methanol)
Relative density(Water=1)	0.79 (20°C,Methanol)
Solubility	Miscible with water (Methanol)
n-octanol/water partition coefficient	-0.74 (Methanol)
Auto-ignition temperature(°C)	440 (Methanol)
Decomposition temperature(°C)	No information available
Kinematic viscosity	0.544 mPa (25°C,Methanol)

Stability and reactivity

| Stability and reactivity

Reactivity Chemical stability	Contact with incompatible substances can cause decomposition or other chemical reactions. Stable under proper operation and storage conditions.
Possibility of hazardous reactions	In contact with oxidants causes severe reactions, and may cause a fire or explosion. Reactions with metals form metal organic coumpounds. In contact with metals, oxidants, triethyl aluminium, amines, boranes and their derivatives may cause an explosion severely.
Conditions to avoid	Incompatible materials, heat, flame and spark.
Incompatible materials	Oxidants, alkali metals, alkaline earth metals and aluminum. Metal, oxidantss and alkali. Borane class and its derivatives, amines, metals, oxidants, triethyl aluminium, calcium and ethylene.
Hazardous decomposition	Under normal conditions of storage and use, hazardous decomposition products
products	should not be produced.

11 Toxicological information

Acute toxicity

Component	LD ₅₀ (oral)	LD ₅₀ (dermal)	LC ₅₀ (inhalation,4h)
Dichloromethane	1600mg/kg(Rat)	No information available	No information available
Trichloroethylene	4920mg/kg(Rat)	> 20000mg/kg(Rabbit)	45.409mg/L(Mouse)
Tetrachloroethylene	2629mg/kg(Rat)	No information available	35.269mg/L(Mouse)
Carbon tetrachloride	2350mg/kg(Rat)	> 20000mg/kg(Rabbit)	50.330mg/L(Rat)
Dibromochloromethane	370mg/kg(Rat)	No information available	No information available
Chloroform	695mg/kg(Rat)	> 20000mg/kg(Rabbit)	47.702mg/L(Rat)
bromodichloromethane	430mg/kg(Rat)	No information available	No information available
Bromoform	933mg/kg(Rat)	No information available	No information available
Methanol	5628mg/kg(Rat)	15800mg/kg(Rabbit)	83.867mg/L(Rat)

| Carcinogenicity

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

Dichloromethane	Category 2A	Category R	Listed
Chloroform	Category 2B	Category R	Not Listed
Carbon tetrachloride	Category 2B	Category R	Not Listed
Trichloroethylene	Category 1	Category K	Not Listed
bromodichloromethane	Category 2B	Category R	Not Listed
Tetrachloroethylene	Category 2A	Category R	Not Listed
Dibromochloromethane	Category 3	Not Listed	Not Listed
Bromoform	Category 3	Not Listed	Not Listed

Others

8 Mix volatile halogenated hydrocarbons in methanol		
Skin corrosion/irritation	Based on available data, the classification criteria are not met	
Serious eye damage/irritation	Based on available data, the classification criteria are not met	
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	Causes damage to organs(Category 1)	
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
Dichloromethane	LC ₅₀ :193mg/L (96h)(Fish)	EC ₅₀ : 1470mg/L	No information available
		(48h)(Crustaceans)	
Trichloroethylene	LC ₅₀ : 42.4mg/L	EC ₅₀ : 11mg/L	ErC ₅₀ : 77mg/L
	(96h)(Fish)	(48h)(Crustaceans)	(72h)(Algae)
Tetrachloroethylene	LC ₅₀ : 14mg/L (96h)(Fish)	EC ₅₀ : 1.3mg/L	ErC ₅₀ : 27mg/L
		(48h)(Crustaceans)	(72h)(Algae)
Carbon tetrachloride	LC ₅₀ : 7.6mg/L (96h)(Fish)	EC ₅₀ : 8.1mg/L	ErC ₅₀ : 0.46mg/L
		(48h)(Crustaceans)	(72h)(Algae)
Dibromochloromethane	LC ₅₀ : 79mg/L (96h)(Fish)	EC ₅₀ : 27mg/L	ErC ₅₀ : 9.6mg/L
		(48h)(Crustaceans)	(72h)(Algae)
Chloroform	LC ₅₀ : > 110mg/L (96h)(Fish)	No information available	No information available
bromodichloromethane	LC ₅₀ : 28mg/L (96h)(Fish)	EC ₅₀ : 29mg/L	ErC ₅₀ : 12mg/L
		(48h)(Crustaceans)	(72h)(Algae)
Bromoform	LC ₅₀ : 29mg/L (96h)(Fish)	EC ₅₀ : 46mg/L	ErC ₅₀ : 13mg/L
		(48h)(Crustaceans)	(72h)(Algae)
Methanol	LC ₅₀ : 24000mg/L	EC ₅₀ : 24500mg/L	No information available
	(96h)(Fish)	(48h)(Crustaceans)	

| Chronic aquatic toxicity

Component	Fish	Crustaceans	Algae or other aquatic
			plants
Trichloroethylene	NOEC: 5.76mg/L(Fish)	NOEC :	NOEC: 45mg/L(Algae)
		2.1mg/L(Crustaceans)	
Tetrachloroethylene	NOEC: 1.9mg/L(Fish)	NOEC :	NOEC: 9.1mg/L(Algae)
		0.023mg/L(Crustaceans)	
Carbon tetrachloride	No information available	NOEC :	NOEC: 0.12mg/L(Algae)
		0.49mg/L(Crustaceans)	
Dibromochloromethane	NOEC: 3.2mg/L(Fish)	NOEC :	NOEC: 4.5mg/L(Algae)
		0.063mg/L(Crustaceans)	
bromodichloromethane	NOEC: 0.78mg/L(Fish)	NOEC:	NOEC: 0.80mg/L(Algae)
		2.2mg/L(Crustaceans)	

| Persistence and degradability

Component	Persistence (water/soil)	Persistence (air)
Methanol	Low	Low
Tetrachloroethylene	High(Half-life = 720 days)	Medium(Half-life = 160.13 days)
Bromoform	High(Half-life = 360 days)	High(Half-life = 541.21 days)

| Bioaccumulative potential

Component	Bioaccumulative potential	Comments
Methanol	Low	BCF=10
Tetrachloroethylene	Low	BCF=77.1
Bromoform	Low	BCF=21

| Mobility in soil

Component	log Koc	Remark
Methanol	0.000	
Dichloromethane	1.67	20 ℃
Chloroform	2.27	20 ℃
Carbon tetrachloride	2.06	20 ℃
Trichloroethylene	2.15	
Tetrachloroethylene	2.15	20 ℃
Bromoform	2.08	

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



IMDG-CODE

UN number	1593
UN proper shipping name	DICHLOROME THANE
Transport hazard class	6.1
Transport subsidiary hazard	None
class	
Packing group	ш
Marine pollutant (Yes or no)	No

IATA-DGR

UN number	1593
UN proper shipping name	DICHLOROMEETHANE
Transport hazard class	6.1
Transport subsidiary hazard	None
class	
Packing group	ш

UN-ADR

UN number	1593
UN proper shipping name	DICHLOROME THANE
Transport hazard class	6.1
Transport subsidiary hazard	None
class	
Packing group	ш

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	Transit should be anti-exposure, rain, high temperature. Strictly prohibited
	shipping or transportation with acids, alkalis, oxidants, food and food additives
	etc. 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

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relevant transporting requirements.

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15 Regulatory information

International chemical inventory

Component	A	В	С	D	E	F	G	Н	I	J	K	L	M
Methanol	√	√	√	√	√	√	√	√	√	√	√	√	√
Dichloromethane	√	√	√	√	√	√	√	√	√	√	√	√	√
Chloroform	√	√											
Carbon tetrachloride	√	√	√	√	√	√	√	√	√	√	√	√	√
Trichloroethylene	√												
bromodichloromethane	×	√	√	×	√	×	×	×	×	×	√	√	√
Tetrachloroethylene	√	√	√	√	√								
Dibromochloromethane	×	√	√	×	×	×	×	×	×	×	√	√	√
Bromoform	√	1	√	1	1	1	√	V	1	√	V	V	√

- [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(NZloC)
- [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
Methanol	×	×	×
Dichloromethane	×	×	×
Chloroform	×	×	×
Carbon tetrachloride	√	×	×
Trichloroethylene	×	×	×
bromodichloromethane	×	×	×
Tetrachloroethylene	×	×	×
Dibromochloromethane	×	×	×
Bromoform	×	×	×

- [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
Methanol	V	×	√	√	√	√	√	√
Dichloromethane	V	×	√	√	√	√	√	V
Chloroform	V	√	√	√	√	√	√	√
Carbon tetrachloride	V	×	√	√	√	1	√	√
Trichloroethylene	V	×	√	√	√	V	√	√
bromodichloromethane	×	×	√	√	√	√	√	√
Tetrachloroethylene	V	×	√	√	√	1	√	V
Dibromochloromethane	×	×	√	√	√	√	√	×
Bromoform	V	×	V	V	V	V	V	V

- [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	2025/10/21
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.
- [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.