### **Safety Data Sheet**

# 7 Mix saturated aliphatic esters in carbon disulfide

Version: V2.0.0.1

Report No.: BWQ8278-2016-MSDS-US

Creation Date: 2025/11/04

Revision Date: -

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



# 1 Identification

### | Product identifier

Product Name	7 Mix saturated aliphatic esters in carbon disulfide
Cat No.	BWQ8278-2016
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 4
Skin Corrosion/Irritation	Category 2
Serious eye damage/irritation	Category 2
Reproductive toxicity	Category 2
Specific target organ toxicity -	Category 1
repeated exposure	

#### Label elements



# | Hazard statements

H225	Highly flammable liquid and vapour
H302	Harmful if swallowed
H315	Causes skin irritation
H319	Causes serious eye irritation
H361	Suspected of damaging fertility. Suspected of damaging the unborn child
H372	Causes damage to organs through prolonged or repeated exposure

# | Precautionary statements

### Prevention

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
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.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

### ◆ Response

P321	Specific treatment (see related instructions on the label).
P330	Rinse mouth.
P302+P352	IF ON SKIN: Wash with plenty of water.
P362+P364	Take off contaminated clothing and wash it before reuse.
P370+P378	Small fire: dry chemical, CO <sub>2</sub> or alcohol-resistant foam; Large fire: alcohol-resistant foam; 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].
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+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 form explosive mixture.

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#### Health hazards

V 11001111 11020100		
Inhaled	Inhalation of the product may produce adverse health effects or irritation of the respiratory tract following discomfort.	
Ingestion	(Further see Inhalation).	
Skin Contact	MAY BE ABSORBED! Dry skin. Redness. (Further see Inhalation).	
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, %)
Carbon disulphide	75-15-0	200-843-6	97.354
Methyl formate	107-31-3	203-481-7	0.378
Ethyl formate	109-94-4	203-721-0	0.378
Methyl acetate	79-20-9	201-185-2	0.378
Ethyl acetate	141-78-6	205-500-4	0.378
Propyl acetate	109-60-4	203-686-1	0.378
N-butyl acetate	123-86-4	204-658-1	0.378
n-Pentyl acetate	628-63-7	211-047-3	0.378

# 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	First rinse with plenty of water for several minutes (remove contact lenses if easily
	possible), then take to a doctor.
Skin contact	First rinse with plenty of water, then remove contaminated clothes and rinse
	again. Refer for medical attention.
Ingestion	Give nothing to drink. Refer for medical attention.
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,

7 Mi	x saturated aliphatic esters in ca	arbon disulfide	Version: V2.0.0.1 Revision Date: -
		give artificial respiration and	consult a physician immediately.
	Protecting of first-aiders	· •	el are aware of the substance involved. Take elves and prevent spread of contamination.
Mo	st important symptoms/eff	ects, acute and delayed	
1	Substance accumulation, in long-term occupational expos	• •	d may cause some concern following repeated or
Ind	ication of any immediate r	nedical attention and spe	cial treatment needed
1	Treat symptomatically.		
2	Symptoms may be delayed.		
5	Fire-fighting measure	S	
Ext	inguishing media		
Su	itable extinguishing media	alcohol-resistant foam; Fire in fire from maximum distance of	or alcohol-resistant foam; Large fire: nvolving tanks, rail tank cars or highway tanks: Fight or use unmanned master stream devices or monitor or flooding quantities of water until well after fire is out
Unsu	itable extinguishing media	Use of water spray when figh	iting fire may be inefficient.
l Si	pecific hazards arising fro	m the substance or mixtu	re
1	Will form explosive mixtures		· <del>·</del>
2	·		re relief valves thereby increasing fire intensity and/
	or vapour concentration.		
3	Vapours may travel to source	of ignition and flash back.	
4	Liquid and vapour are flamm	able.	
5	Development of hazardous of	ombustion gases or vapor pos	sible in the event of fire.
6	May expansion or decompos	e explosively when heated or	involved in fire.
Spe	ecial protective equipmen	and precautions for fire-	fighters
1	As in any fire, wear self-contagrotective gear.	nined breathing apparatus ( M	SHA/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 mo	easures	
Per	sonal precautions, protec	tive equipment and emer	gency procedures
1	Avoid breathing vapours and	contacting with skin and eye.	
2	Beware of vapours accumula	ting to form explosive concent	rations.
3	Vapours can accumulate in le	ow areas.	
4	Emergency personnel wear panti-static clothing. Wear che	·	d breathing apparatus. Wear protective and
5	Use personal protective equi	oment,do not breathe gas/mis	t/vapour/spray.

Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static

Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

### | Environmental precautions

discharges.

6

7

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

#### Methods and materials for containment and cleaning up

1	It is recommended that emergency personnel wear positive pressure self-contained breathing apparatus and
	wear anti-static clothing.

- 2 In case of small amount of spillage, use clean non sparking tools to collect absorption materials.
- In case of large amount of spillage, construct cofferdam or dig a hole to collect the spillage. Use foam cover to reduce evaporation. Water spray mist can reduce evaporation, but can not reduce the flammability of the leakage in the restricted space.
- 4 Collect absorbent material using a clean, non-sparking tool.
- 5 Cover with anti-solvent foam to reduce evaporation.
- 6 Cover with DRY earth, DRY sand or other non-combustible material followed with plastic sheet to minimize spreading or contact with rain.
- 7 Water spray reduces evaporation but does not reduce the flammability of spills in confined spaces.
- 8 Cut off the source of the leak as much as possible.
- 9 Keep leaks in a ventilated place.
- Absorb spilled material in dry sand or inert absorbent. In case of large amount of spillage, contain a spill by bunding.
- 11 Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.
- 12 Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container.
- 13 Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

# 7 Handling and storage

#### Precautions for safe handling

- 1 Avoid inhalation of vapors.
- 2 Use only non-sparking tools.
- 3 To prevent fire caused by electrostatic discharge steam, equipment on all metal parts should be grounded.
- 4 Use explosion proof equipment.
- 5 Handling is performed in a well ventilated place.
- 6 Wear suitable protective equipment.
- 7 Avoid contact with skin and eyes.
- 8 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.
- 4 Store away from incompatible materials and foodstuff containers.

# 8 Exposure controls/personal protection

#### **Control parameters**

Occupational exposure limit values

Component	Country/Region	Limit value - Eight hours	Limit value - Short term

	standards for workers in the workplace				
	Australia	200	720	400	1440
	Canada - Ontario	400	-	-	-
	European Union	200	734	400	1468
	New Zealand	200	720	-	-
Propyl acetate	Japan - JSOH(2024–202 5)	200	830	-	-
	Permissible exposure standards for workers in the workplace	200	835	250	1043.75
	Australia	200	835	250	1040
	Canada - Ontario	200	-	250	-
	New Zealand	200	835	250	1040
	USA - ACGIH	100	-	150	-
N-butyl acetate	Japan - JSOH(2024–202 5)	100	475	-	-
	Permissible exposure standards for workers in the workplace	150	712	187.5	890
	Australia	150	713	200	950
	Canada - Ontario	150	-	200	-
	European Union	50	241	150	723
	New Zealand	150	713	200	950
n-Pentyl acetate	Japan - JSOH(2024–202 5)	50	266.3	-	-
	Permissible exposure standards for workers in the workplace	100	532	125	665
	Australia	50	270	100	541
	Canada - Ontario	50	-	100	-
	European Union	50	270	100	540
	New Zealand	100	532	-	-

# | 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 respiratory protective equipment.		
Skin and body protection	Must wear anti static chemical protective clothing and anti static shoes.		

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# 9 Physical and chemical properties and safety characteristics

# | Physical and chemical properties

1	
Appearance (physical state, color, etc.)	colorless liquid
Odor	No information available
Odor threshold	No information available
рН	No information available
Melting point/freezing point(°C)	-111 ( Carbon disulphide )
Initial boiling point and boiling range(°C)	46 ( Carbon disulphide )
Flash point(Closed cup,°C)	-30 ( Carbon disulphide )
Evaporation rate	No information available
Flammability	No information available
Upper/lower explosive limits[%(v/v)]	Upper limit: 50 ( Carbon disulphide ); Lower limit: 1 ( Carbon disulphide )
Vapor pressure	48kPa ( 25°C,Carbon disulphide )
Vapor density(Air = 1)	2.63 ( Carbon disulphide )
Relative density(Water=1)	1.26 ( Carbon disulphide )
Solubility	2.9g/L ( 20 °C,Carbon disulphide )
n-octanol/water partition coefficient	1.84 ( Carbon disulphide )
Auto-ignition temperature(°C)	90 ( Carbon disulphide )
Decomposition temperature(°C)	No information available
Kinematic viscosity	No information available

# 10 Stability and reactivity

# | Stability and reactivity

Reactivity	Contact with incompatible substances can cause decomposition or other chemical reactions.
Chemical stability	Stable under proper operation and storage conditions.
Possibility of hazardous reactions	May catch fire spontaneously in the air. In contact with metal alkoxides may cause a fire.
Conditions to avoid	Incompatible materials, heat, flame and spark.
Incompatible materials	Nitrate and nitrite, halogens oxyacid salts, potassium permanganate, persulfate, halogen and strong oxidants. Metal alkyl oxide, metal hydride, inorganic peroxide,

	nitrate and halogens oxyacid salts.		
Hazardous decomposition	Under normal conditions of storage and use, hazardous decomposition products		
products	should not be produced.		

# 11 Toxicological information

# | Acute toxicity

Component	LD <sub>50</sub> (oral)	LD <sub>50</sub> (dermal)	LC <sub>50</sub> (inhalation,4h)
Methyl acetate	> 5000mg/kg(Rat)	> 5000mg/kg(Rabbit)	No information available
Methyl formate	475mg/kg(Rat)	> 5000mg/kg(Rabbit)	5.2mg/L(Rat)
n-Pentyl acetate	> 1600mg/kg(Rat)	No information available	No information available
Ethyl formate	1850mg/kg(Rat)	> 18300mg/kg(Rabbit)	No information available
Propyl acetate	9370mg/kg(Rat)	> 17800mg/kg(Rabbit)	No information available
N-butyl acetate	10768mg/kg(Rat)	> 17600mg/kg(Rabbit)	No information available
Carbon disulphide	1200mg/kg(Rat)	No information available	No information available
Ethyl acetate	5620mg/kg(Rat)	> 18000mg/kg(Rabbit)	No information available

# | Carcinogenicity

Component	List of carcinogens by	Report on Carcinogens	OSHA Carcinogen List
the IARC Monog		by NTP	
Carbon disulphide	Not Listed	Not Listed	Not Listed
Methyl formate	Not Listed	Not Listed	Not Listed
Ethyl formate	Not Listed	Not Listed	Not Listed
Methyl acetate	Not Listed	Not Listed	Not Listed
Ethyl acetate	Not Listed	Not Listed	Not Listed
Propyl acetate	Not Listed	Not Listed	Not Listed
N-butyl acetate	Not Listed	Not Listed	Not Listed
n-Pentyl acetate	Not Listed	Not Listed	Not Listed

# Others

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Skin corrosion/irritation Causes skin irritation(Category 2)						
Serious eye damage/irritation	Causes serious eye irritation(Category 2)					
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	Suspected of damaging fertility. Suspected of damaging the unborn child(Category 2)					
STOT-single exposure	Based on available data, the classification criteria are not met					
STOT-repeated exposure	Causes damage to organs through prolonged or repeated exposure(Category 1)					
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
Methyl acetate	LC <sub>50</sub> :250mg/L (96h)(Fish)	No information available	No information available
Ethyl formate	LC <sub>50</sub> : > 100mg/L (96h)(Fish)	EC <sub>50</sub> : 212.5mg/L (48h)(Crustaceans)	ErC <sub>50</sub> : 131.702mg/L (96h)(Algae)
Propyl acetate	LC <sub>50</sub> : 60mg/L (96h)(Fish)	No information available	No information available
N-butyl acetate	LC <sub>50</sub> : 18mg/L (96h)(Fish)	No information available	No information available
Carbon disulphide	LC <sub>50</sub> : 3mg/L (96h)(Fish)	No information available	ErC <sub>50</sub> : 21mg/L (96h)(Algae)
Ethyl acetate	LC <sub>50</sub> :230mg/L (96h)(Fish)	No information available	ErC <sub>50</sub> : 2500mg/L (96h)(Algae)

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# | Chronic aquatic toxicity

Chronic aquatic toxicity

No information available

# | Persistence and degradability

Component	Persistence (water/soil)	Persistence (air)
Methyl formate	Low	Low
n-Pentyl acetate	Low	Low

# | Bioaccumulative potential

Component	Bioaccumulative potential	Comments
Methyl formate	Low	BCF=6
n-Pentyl acetate	Low	Log Kow=2.18

### Mobility in soil

Component	log Koc	Remark
Carbon disulphide	1.53	<b>20</b> °C
Methyl formate	0.332	
Ethyl formate	1.963	25 °C , pH=4.61
Methyl acetate	1.11	<b>20</b> °C
n-Pentyl acetate	1.585	

# 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	1993
UN proper shipping name	FLAMMABLE LIQUID, N.O.S.
Transport hazard class	3
Transport subsidiary hazard	None
class	
Packing group	п
Marine pollutant ( Yes or no )	No

### IATA-DGR

UN number	1993
UN proper shipping name	FLAMMABLE LIQUID, N.O.S.
Transport hazard class	3
Transport subsidiary hazard	None
class	
Packing group	п

### UN-ADR

UN number	1993
UN proper shipping name	FLAMMABLE LIQUID, N.O.S.
Transport hazard class	3
Transport subsidiary hazard	None
class	
Packing group	п

### 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	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 with oxidants, acids, food and food additives etc. When

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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	М
Carbon disulphide	√	<b>V</b>	√	√	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>V</b>	<b>√</b>	√	<b>√</b>	1
Methyl formate	√	1	<b>√</b>	1									
Ethyl formate	√	<b>√</b>	<b>√</b>	√	<b>√</b>	√	<b>√</b>	<b>√</b>	<b>√</b>	√	√	<b>√</b>	1
Methyl acetate	√	<b>V</b>	<b>√</b>	√	<b>√</b>	<b>√</b>	7						
Ethyl acetate	√	<b>V</b>	<b>√</b>	√	<b>√</b>	√	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	√	<b>√</b>	7
Propyl acetate	√	<b>V</b>	<b>√</b>	√	<b>√</b>	<b>√</b>	7						
N-butyl acetate	1	1	<b>√</b>	1									
n-Pentyl acetate	√ √	<b>√</b>	1										

- [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
Carbon disulphide	×	×	×
Methyl formate	×	×	×
Ethyl formate	×	×	×
Methyl acetate	×	×	×
Ethyl acetate	×	×	×
Propyl acetate	×	×	×
N-butyl acetate	×	×	×
n-Pentyl acetate	×	×	×

- [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

#### US chemical inventory

Component	Α	В	С	D	E	F	G	Н
Carbon disulphide	√	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	√	√	<b>√</b>
Methyl formate	×	×	×	<b>√</b>	<b>√</b>	√	√	×
Ethyl formate	×	×	×	<b>√</b>	<b>√</b>	√	√	×
Methyl acetate	×	×	×	<b>√</b>	<b>√</b>	√	√	×
Ethyl acetate	×	×	<b>√</b>	<b>√</b>	V	<b>√</b>	<b>√</b>	×
Propyl acetate	×	×	×	V	√	√	√	×
N-butyl acetate	×	×	√	V	V	√	√	×
n-Pentyl acetate	×	×	√	V	V	√	√	×

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- [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:

- " $\sqrt{\phantom{a}}$ " 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	2025/11/04
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 <sub>50</sub>	Lethal Concentration 50%	NFPA	National Fire Protection Association

$LD_{50}$	Lethal Dose 50%	NTP	National Toxicology Program
EC <sub>50</sub>	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.