

## Beiblatt zum Sicherheitsdatenblatt / Supplement to the safety data sheet

### Abschnitt 1 / Section 1

#### 1.1 Produktidentifikation / Product identification

s. Original-Datenblatt / see original safety data sheet

#### 1.2 Verwendungen des Stoffs / Uses of the substance

s. Original-Datenblatt / see original safety data sheet

#### 1.3 Einzelheiten zum Lieferanten / Details of the supplier

Firmenname / *Supplier*  
 Straße / *Street*  
 Ort / *City*  
 Tel. / *Phone*  
 E-Mail / *E-Mail*

Stürmer Maschinen GmbH,  
 Dr.-Robert-Pfleger-Str. 26,  
 D-96103 Hallstadt  
 +49 (0)951 96555 - 0 (07:00 - 17:00 Uhr / 07:00 am - 05:00 pm)  
 info@stuermer-maschinen.de

#### 1.4 Notrufnummer / Emergency Telephone

Wählen Sie die passende Notrufnummer anhand des GHS-Symbols auf Ihrem Gefahrgut oder entsprechend Abschnitt 2.2 des orig. Sicherheitsdatenblattes \*.  
 Call the appropriate emergency number using the GHS symbol on your dangerous goods or according to section 2.2 of the original safety data sheet \*.

GHS Gefahren-piktogramm / GHS symbol	GHS-Kürzel/ GHS-no.	Mögliche Signalwörter/ Warning	Gefährdungsklassen / Description of hazards	Notrufnummer */ Emergency Phone *
	GHS01 bis GHS09			+49 (0)951 96555 - 590 Sammelnotrufnummer Gefahrstoffe
	GHS01	Gefahr oder Achtung / Danger or Attention	Explosive Stoffe/Gemische und Erzeugnisse mit Explosivstoff, selbstzersetzliche Stoffe/Gemische, organische Peroxide / Explosive substances / mixtures and products containing explosives, self-reactive substances / mixtures, organic peroxides	- 591
	GHS02	Gefahr oder Achtung / Danger or Attention	Selbstzersetzliche Stoffe/Gemische, organische Peroxide, entzündbare Gase, Aerosole Flüssigkeiten, Feststoffe, selbsterhitzungsfähige Gemische, pyrophore Flüssigkeiten und Feststoffe, Stoffe/Gemische, die bei Berührung mit Wasser entzündbare Gase bilden / Self-reactive substances / mixtures, organic peroxides, flammable gases, aerosols, liquids, solids, self-heating mixtures, pyrophoric liquids and solids, substances / mixtures which form flammable gases on contact with water	- 592
	GHS03	Gefahr oder Achtung / Danger or Attention	Oxidierende Gase, Flüssigkeiten, Feststoffe / Oxidizing gases, liquids, solids	- 593
	GHS04	Achtung / Attention	Verdichtete, verflüssigte, gelöste und tiefgekühlt verflüssigte Gase / Compressed, liquefied, dissolved and refrigerated liquefied gases	- 594
	GHS05	Gefahr oder Achtung / Danger or Attention	Verätzung der Haut, schwere Augenschäden, auch metallkorrosive Eigenschaften / Chemical burns to the skin, severe eye damage, also metal-corrosive properties	- 595
	GHS06	Gefahr / Danger	Äußerst schwere und schwere akute Gesundheitsschäden oder Tod / Extremely severe and severe acute damage to health or death	- 596
	GHS07	Achtung / Attention	Akute Gesundheitsschäden, Reizung der Haut, der Augen und der Atemwege, Sensibilisierung der Haut, narkotisierende Wirkungen / Acute damage to health, irritation of the skin, eyes and the respiratory tract, sensitization of the skin, narcotic effects	- 597
	GHS08	Gefahr oder Achtung / Danger or Attention	Chronische Gesundheitsschäden (Organschädigungen) bei einmaliger oder mehrmaliger Exposition, krebserzeugende, erbgutverändernde und fortpflanzungsgefährdende Wirkungen, Lungenschäden durch Eindringen von Substanzen in die Lunge (Aspirationsgefahr), Sensibilisierung der Atemwege / Chronic damage to health (damage to organs) after single or multiple exposure, carcinogenic, mutagenic and reproductive effects, lung damage due to the penetration of substances into the lungs (risk of aspiration), sensitization of the respiratory tract	- 598
	GHS09	Achtung oder ohne Signalwort/ Attention or without wording	Giftig für Wasserorganismen mit kurz- und langfristiger Wirkung / Toxic to aquatic organisms with short and long-term effects	- 599

\* 07:00 - 17:00 Uhr, außerhalb dieses Zeitraums kann die Nummer auf dem Sicherheitsdatenblatt angerufen werden / 07:00 am - 05:00 pm, outside this time, the number on the safety data sheet can be called

Für alle anderen Informationen siehe Original-Sicherheitsdatenblatt / For all other information, see the original safety data sheet



Report No.: MND250677QD\_CN(En)\_ADD

Nomination No.: XMP25-002137

## Safety Data Sheet (SDS)

Product Name: Jack oil

Warranty of Design: GB/T 17519-2013 and GB/T 16483-2008

Application Company Name: Qianliyuan (Xiamen) New Material Technology Co., Ltd.

Application Company Address: Factory No. 8, No. 20 Guankou Middle Road, Guankou Town, Jimei District,  
Xiamen City, Fujian Province

Contact Information: 13806065728

24 Hour Emergency Call: **0592-6387501**

Inspection Date: 2025/05/20

SGS-CSTC Standards Technical Services(Qingdao) Co.,Ltd

Authorised Signatory  
2025-05-20



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## Safety Data Sheet

# Jack oil

Version: V2.0.0.1

Report No.: MND250677QD\_CN(En)\_ADD

Nomination No.: XMP25-002137

Creation Date: 2025/05/20

Revision Date: 2025/05/20

\*Prepared according to GB/T 17519-2013 and GB/T 16483-2008

## 1 Identification of the chemical and supplier

### Product identifier

Product Name	Jack oil
Product Model	HM-12
CAS No.	Not applicable
EC No.	Not applicable
Molecular Formula	Not applicable

### Recommended use of the product and restrictions on use

Relevant identified uses	Specially applied to the anti-wear circulation lubrication of hydraulic systems for jacks.
Uses advised against	Please consult manufacturer.

### Details of the supplier of the Safety Data Sheet

Applicant Name	Qianliyuan (Xiamen) New Material Technology Co., Ltd.
Applicant Address	Factory No. 8, No. 20 Guankou Middle Road, Guankou Town, Jimei District, Xiamen City, Fujian Province
Applicant Post Code	—
Applicant Telephone	13806065728
Applicant Fax	0592-6387502
Applicant E-mail	xmhongdonghan@163.com
Supplier Name	Qianliyuan (Xiamen) New Material Technology Co., Ltd.
Supplier Address	Factory No. 8, No. 20 Guankou Middle Road, Guankou Town, Jimei District, Xiamen City, Fujian Province
Supplier Post Code	—
Supplier Telephone	13806065728
Supplier Fax	0592-6387502
Supplier E-mail	xmhongdonghan@163.com

### Emergency phone number

Emergency phone number	0592-6387501
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## 2 Hazard(s) identification

### Emergency overview

Liquid. Slightly irritating to skin. Possible risk of harm to the unborn child. Danger of serious damage to health by

shortdated exposure. Danger of damage to health by prolonged exposure. Harmful to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

### Hazard classification according to GHS

Skin Corrosion/Irritation	Category 3
Reproductive Toxicity	Category 2
Specific Target Organ Toxicity Single Exposure	Category 1
Specific Target Organ Toxicity Repeated Exposure	Category 2
Hazardous To The Aquatic Environment - Short-Term (Acute) Hazard	Category 3
Hazardous To The Aquatic Environment - Long-Term (Chronic) Hazard	Category 3

### GHS Label elements

Hazard pictograms	
Signal word	<b>Danger</b>

### Hazard statements

H316	Causes mild skin irritation
H361	Suspected of damaging fertility or the unborn child
H370	Causes damage to organs
H373	May cause damage to organs through prolonged or repeated exposure
H402	Harmful to aquatic life
H412	Harmful to aquatic life with long lasting effects

### Precautionary statements

#### ◆ Prevention

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe gas/mist/vapour/spray.
P264	Wash face and hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

#### ◆ Response

P314	Get medical advice/attention if you feel unwell.
P321	Specific treatment (see on the label).
P308+P311	IF exposed or concerned: Call a POISON CENTER/doctor.
P308+P313	IF exposed or concerned: Get medical advice/ attention.

<b>P332+P313</b>	If skin irritation occurs: Get medical advice/attention.
◆ Storage	
<b>P405</b>	Store locked up.
◆ Disposal	
<b>P501</b>	Dispose of contents/container in accordance with local/regional/national/international regulations.

## Hazard description

### ◆ Physical and chemical hazards

	No information available
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### ◆ Health hazards

<b>Inhaled</b>	Inhalation of the product may produce adverse health effects or irritation of the respiratory tract following discomfort.
<b>Ingestion</b>	Diarrhoea.
<b>Skin Contact</b>	The product can cause mild skin irritation following direct contact with the skin.
<b>Eye</b>	This product may cause temporary discomfort following direct contact with the eye.

### ◆ Environmental hazards

	This product is harmful to aquatic life with long lasting effects. Please refer to 12th chapter of SDS.
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## 3 Composition/information on ingredients

### Substance/mixture

	Mixture
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Component	CAS No.	EC No.	Concentration (wt, %)
Refined low-viscosity paraffin-based base oil	8042-47-5	232-455-8	95
Wear-resistant hydraulic composite agent	68649-42-3	272-028-3	3.7
Corrosion and oxidation inhibitors	128-37-0	204-881-4	1
defoamer	9011-14-7	618-466-4	0.3

## 4 First-aid measures

### Description of first aid measures

<b>General advice</b>	Immediate medical attention is required. Show this safety data sheet (SDS) to the doctor in attendance.
<b>Eye contact</b>	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
<b>Skin contact</b>	Rinse and then wash skin with water and soap.
<b>Ingestion</b>	Do NOT induce vomiting.
<b>Inhalation</b>	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.

<b>Protecting of first-aiders</b>	Ensure that medical personnel are aware of the substance involved. Take precautions to protect themselves and prevent spread of contamination.
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### | Most important symptoms, acute and delayed

1	Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.
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### | Advice for protecting the rescuer

1	Remove all sources of ignition and increase ventilation.
2	Avoid contact with skin and eyes.
3	Avoid inhalation of vapor or mist.
4	Use personal protective equipment including respirator.

### | Special note to the doctor

1	Treat symptomatically.
2	Symptoms may be delayed.

## 5 Fire-fighting measures

### | Extinguishing media

<b>Suitable extinguishing media</b>	Use extinguishing media suitable for surrounding area.
<b>Unsuitable extinguishing media</b>	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.

### | Fire precautions and protective measures

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

### | Personal precautions, protective equipment and emergency procedures

1	Use personal protective equipment, do not breathe gas/mist/vapour/spray.
2	Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges.
3	Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

### | Environmental precautions

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	Cut off the source of the leak as much as possible.
2	Keep leaks in a ventilated place.

3	Absorb spilled material in dry sand or inert absorbent. In case of large amount of spillage, contain a spill by bunding.
4	Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.
5	Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container.

## 7 Handling and storage

### 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.

### Storage

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

<b>Occupational Exposure limit values</b>	No relevant regulations
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#### ◆ Biological limit values

<b>Biological limit values</b>	No relevant regulations
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#### ◆ Monitoring methods

1	EN 14042 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.
2	GBZ/T 300 series standard Determination of toxic substances in workplace air.

### 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

<b>General requirement</b>	
<b>Eye protection</b>	Must wear appropriate safety goggles.
<b>Hand protection</b>	Must wear appropriate chemical protective gloves.
<b>Respiratory protection</b>	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****Physical and chemical properties**

Appearance	Clear liquid
Odor	Slightly fragrant aromai
Odor threshold	No information available
pH	No information available
Melting point/freezing point(°C)	No information available
Initial boiling point and boiling range(°C)	>35
Flash point(Closed cup, °C)	> 185
Evaporation rate	No information available
Flammability	No information available
Upper/lower explosive limits[%(v/v)]	Upper limit: No information available; Lower limit: No information available
Vapor pressure(kPa)	No information available
Vapor density(Air = 1)	No information available
Relative density(Water=1)	0.84~0.86
Solubility(mg/L)	Insoluble in water
n-octanol/water partition coefficient	No information available
Auto-ignition temperature(°C)	No information available
Decomposition temperature(°C)	No information available
Kinematic viscosity(mm <sup>2</sup> /s)	12 ~ 15 (40°C)

**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	No information available.
Conditions to avoid	Incompatible materials, heat, flame and spark.
Incompatible materials	No information available.
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition 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)
Corrosion and oxidation inhibitors	890mg/kg(Rat)	No information available	No information available

## Carcinogenicity

Component	List of carcinogens by the IARC Monographs	Report on Carcinogens by NTP
Refined low-viscosity paraffin-based base oil	Not Listed	Not Listed
Wear-resistant hydraulic composite agent	Not Listed	Not Listed
Corrosion and oxidation inhibitors	Category 3	Not Listed
defoamer	Category 3	Not Listed

## Others

Jack oil	
Skin corrosion/irritation	Causes mild skin irritation(Category 3)
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	Suspected of damaging fertility or the unborn child(Category 2)
STOT-single exposure	Causes damage to organs(Category 1)
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure(Category 2)
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
Corrosion and oxidation inhibitors	LC <sub>50</sub> : 0.199mg/L (96h)(Fish)	EC <sub>50</sub> : 1.44mg/L (48h)(Crustaceans)	ErC <sub>50</sub> : >0.24mg/L (72h)(Algae)

### Chronic aquatic toxicity

Component	Fish	Crustaceans	Algae
Corrosion and oxidation inhibitors	NOEC: 0.053mg/L(Fish)	NOEC: 0.069mg/L(Crustaceans)	NOEC: 0.24mg/L(Algae)

### Persistence and degradability

Component	Persistence (water/soil)	Persistence (air)
Wear-resistant hydraulic composite agent	Low	Low
Corrosion and oxidation inhibitors	High	High
defoamer	Low(Half-life = 56 days)	Low(Half-life = 0.4 days)

### Bioaccumulative potential

Component	Bioaccumulative potential	Comments
Wear-resistant hydraulic composite agent	Low	BCF=100
Corrosion and oxidation inhibitors	High	BCF=2500
defoamer	Low	Log Kow=1.2751

### | Mobility in soil

Component	Mobility in soil	Soil Organic Carbon-Water Partitioning Coefficient (Koc)
Wear-resistant hydraulic composite agent	Low	14.3
Corrosion and oxidation inhibitors	Low	23030
defoamer	Low	10.14

### | Results of PBT and vPvB assessment

Component	Results of PBT and vPvB assessment [according to (EC) No 1907/2006]
Refined low-viscosity paraffin-based base oil	Not PBT/vPvB
Wear-resistant hydraulic composite agent	Not PBT/vPvB
Corrosion and oxidation inhibitors	Insufficient information, temporarily unable to evaluate
defoamer	Insufficient information, temporarily unable to evaluate

## 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
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### | IMDG-CODE

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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### | JT/T 617-2008

JT/T 617-2008	NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS
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## Others

<b>Precautions for transport</b>	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.
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## 15 Regulatory information

### International chemical inventory

Component	EC inventory	TSCA	DSL	IECSC	NZIoC	PICCS	KECI	AIICS	ENCS
Refined low-viscosity paraffin-based base oil	√	√	√	√	√	√	√	√	×
Wear-resistant hydraulic composite agent	√	√	√	√	√	√	√	√	√
Corrosion and oxidation inhibitors	√	√	√	√	√	√	√	√	√
defoamer	×	√	√	√	√	√	√	√	√

[EC inventory]	European Inventory of Existing Commercial Chemical Substances
[TSCA]	United States Toxic Substances Control Act Inventory
[DSL]	Canadian Domestic Substances List
[IECSC]	China Inventory of Existing Chemical Substances
[NZIoC]	New Zealand Inventory of Chemicals
[PICCS]	Philippines Inventory of Chemicals and Chemical Substances
[KECI]	Korea Existing Chemicals Inventory
[AIICS]	Australian. Inventory of Industrial Chemical (AIICS)
[ENCS]	Japan Inventory of Existing & New Chemical Substances

### Chinese chemical inventory

Component	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
Refined low-viscosity paraffin-based base oil	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
Wear-resistant hydraulic composite agent	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
Corrosion and oxidation inhibitors	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
defoamer	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×

- 【A】 Catalog of Hazardous Chemicals(2015 Edition), Notice 5<sup>th</sup> 2015, the former China State Administration of Work Safety together with the Ministry of Industry and Information Technology, etc.
- 【B】 List of Toxic Chemicals Restricted in China, Notice 32<sup>nd</sup> 2023, the Ministry of Ecology and Environment, Ministry of Commerce, General Administration of Customs.
- 【C】 List of Ozone Depletion Chemicals Controlled to be Imported/Exported in China (2021) , Decree No. 50 of Ministry of Ecology and environment of PRC in 2021.
- 【D】 Catalog of Hazardous Chemicals for Priority Management (First and Second batches) , Notice 95<sup>th</sup>, 2011, Notice 12<sup>th</sup> 2013, China State Administration of Work Safety.
- 【E】 Catalog of Hazardous Chemicals for Environmental Management, Notice 33<sup>th</sup> 2014, The former Ministry of Environmental Protection.
- 【F】 List of Various Monitoring Chemicals, 52<sup>th</sup> 2020, the Ministry of Industry and Information Technology.
- 【G】 List of Priority Controlled Chemicals (the First batch), 83<sup>th</sup> 2017, the former Ministry of Environmental Protection, Ministry of Industry and Information Technology, the former National Health And Family Planning Commission.

- [H]** Catalog of Specially Controlled Hazardous Chemicals (First Edition), 1<sup>st</sup> 2020, the Ministry of Emergency Management, Ministry of Industry and Information Technology, Ministry of Public Security, Ministry of Transport.
- [I]** List of Toxic and Harmful Water Pollutants (First batch), 28<sup>th</sup> 2019, the Ministry of Ecology and Environment, National Health Commission.
- [J]** Catalog of Highly Toxic Chemicals, Notice 142<sup>th</sup> 2003, the former Ministry of Health of P.R.China.
- [K]** Dangerous Chemicals Directory Used to Manufacture Exploder (2017 Edition), Notice 11<sup>th</sup> May. 2017, Ministry of Public Security of P.R.China.
- [L]** Catalog of Stupeficient and Psychotropic Substances, China Food and Drug Administration Notice No. 230 in 2013, No. 39 in 2020, No. 43 in 2023 and the Ministry of Public Security Notice No. 27 [2015].
- [M]** Decree No. 445 of the State Council in 2005 and its amendment announcement.
- [N]** Catalog of Import and Export Management of Precursor Chemicals, 7<sup>th</sup> 2006, the Ministry of Commerce.
- [O]** International Verification of Precursor Chemicals Management Catalog, 8<sup>th</sup> 2006, the Ministry of Commerce, Ministry of Public Security.

## Note:

- “√” 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	2025/05/20
Revision Date	2025/05/20
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 <sub>50</sub>	Lethal Dose 50%	NTP	National Toxicology Program
EC <sub>50</sub>	Effective Concentration 50%	PBT	Persistent, Bioaccumulative, Toxic
EC <sub>x</sub>	Effective Concentration X%	vPvB	very Persistent, very Bioaccumulative
P <sub>ow</sub>	Partition coefficient Octanol: Water	CMR	Carcinogens, mutagens or substances toxic to reproduction
BCF	Bioconcentration factor	RPE	Respiratory Protective Equipment
ED	Endocrine disruptor		

### Disclaimer

This Safety Data Sheet (SDS) was prepared according to GB/T 16483 and GB/T 17519. 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.