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Design Report of Safety Data Sheet

★**Product Name:**	Rechargeable Li-ion Battery Module Battery vision top pack 2.1 (4.6 kWh)
★**Applicant:**	SOLARWATT GmbH
Supplier:	FOXESS CO., LTD.
Importer:	FOXESS AUSTRALIA PTY LTD
★**Composition of the product:**	Ferrous Lithium Phosphate(CAS: 15365-14-7): 40.3%; Carbon(CAS: 7440-42-5): 20.2%; Ethyl methyl carbonate(CAS: 623-53-0): 7.2%; Copper Foil(CAS: 7440-50-8): 6.9%; **Details on the next page**
Warranty of Design:	Model Work Health and Safety Regulations 2024
★**Information materials:**	HGBZ2610CMH《Application》、P178449《Declaration of consistency of components of the sample submitted for inspection》、P178449《UN 38.3》、P178449-Product Picture

Design Result of SDS please see next page.

Designer: 江帆 **Auditor:** 叶江龙 **Approver:** 戎霄

常州合规思远产品安全技术服务有限公司

Changzhou Hegui Siyuan Products Safety Technology Service Co., Ltd.

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Notes: This SDS is valid before the revision of Model Work Health and Safety Regulations 2024.

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Contd. of Prev. page: Complete sample component information.

★**Composition of the product:**	Ferrous Lithium Phosphate(CAS: 15365-14-7): 40.3%; Carbon(CAS: 7440-42-5): 20.2%; Ethyl methyl carbonate(CAS: 623-53-0): 7.2%; Copper Foil(CAS: 7440-50-8): 6.9%; Ethylene carbonate(CAS: 96-49-1): 4.8%; Aluminum Foil(CAS: 7429-90-5): 4.4%; Lithium hexafluorophosphate(CAS: 21324-40-3): 2.8%; Polyethylene(CAS: 9002-88-4): 2.5%; Dimethyl carbonate(CAS: 616-38-6): 2.4%; Propylene carbonate(CAS: 108-32-7): 1.2%; Diethyl carbonate(CAS: 105-58-8): 1.2%

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2. The data source of this report is based on the relevant materials and information submitted by the client, the test results of international authoritative databases, laboratories and the current relevant knowledge of the company. We try our best to ensure the correctness of all information during the audit. However, due to the diversity of information sources and the limitations of the Company's knowledge, users of this report should make further judgments on the reasonableness of relevant information based on the purpose of use.
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Safety Data Sheet

Rechargeable Li-ion Battery Module Battery vision top pack 2.1 (4.6 kWh)

Version: V2.0.1.1
Report No.: HGBZ2610CMH1
Creation Date: 2026/10/20
Revision Date: -

*According to Model Work Health and Safety Regulations 2024

Part 1: Identification

Product identifier

Product Name	Rechargeable Li-ion Battery Module Battery vision top pack 2.1 (4.6 kWh)
Product Model	Battery vision top pack 2.1 (4.6 kWh)
CAS No.	Not applicable
EC No.	Not applicable
Molecular Formula	Not applicable
Product Picture	

Recommended use of the chemical and restrictions on use

Relevant identified uses	Battery vision top pack 2.1 (4.6 kWh) is the battery module in the Battery vision X 2.1System, X=two/three/four/five/six
Uses advised against	No special instructions.

Details of manufacturer or importer

Applicant Name	SOLARWATT GmbH
Applicant Address	Maria-Reiche-Straße 2a 01109 Dresden
Applicant Post Code	01109
Applicant Telephone	+49-351-4676- 1000
Applicant Fax	+49-351-8895-100
Applicant E-mail	——
Supplier Name	FOXESS CO., LTD.
Supplier Address	No.939, Jinhai Third Road, New Airport Industry Area, Longwan District, Wenzhou, Zhejiang, China
Supplier Post Code	325025
Supplier Telephone	0510-68092998
Supplier Fax	-

Supplier E-mail	foxrd@fox-ess.com
Importer Name	FOXESS AUSTRALIA PTY LTD
Importer Address	53 Willow Avenue, springvale VlC 3171
Importer Post Code	3171
Importer Telephone	+61 1300 377 369
Importer Fax	-
Importer E-mail	service.au@fox-ess.com

Emergency phone number

Emergency phone number	+61 1300 377 369; 0577-88159999; 0510-68092998

Part 2: Hazard(s) identification

Classification of the hazardous chemical

The product meets the definition of "article". In the Globally Harmonized Chemical Classification and Labeling System (GHS), the "articles" defined by the US Occupational Safety and Health Administration "Hazard Communication Standard" (29 CFR 1910.1200) or similar definitions do not fall within the scope of this system. [Rev.11 (2025) Part 1.3.2.1.1].According to Model Work Health and Safety Regulations 2024, not classified as a hazardous chemical.

Label elements, including precautionary statements

Hazard pictograms	Not applicable
Signal word	Not applicable

Hazard statements

Hazard statements	Not applicable

Precautionary statements

- Prevention

Prevention	Not applicable

- Response

Response	Not applicable

- Storage

Storage	Not applicable

- Disposal

Disposal	Not applicable

Hazard description

- Physical and chemical hazards

	When the outer enclosure and safety circuits have been compromised or have been significantly damaged, it is likely to contain substantial electrical charge and can cause injury or death if mishandled. Mechanical damage can lead to danger. Battery products exposed to high temperature conditions, may produce heat out of control, causing fire.

- Health hazards

Inhaled	According to the material form, it is not the normal way of contacting.
Ingestion	Accidental ingestion of the product may be harmful to the health of the individual.
Skin Contact	No harm in general situation.

Eye	This product may cause temporary discomfort following direct contact with the eye.

- Environmental hazards

	Please refer to 12th chapter of SDS.

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Part 3: Composition and information on ingredients

Substance/mixture

	Mixture

Component	CAS No.	EC No.	Concentration (weight percent, %)
Ferrous Lithium Phosphate	15365-14-7	604-917-2	40.3
Carbon	7440-42-5	-	20.2
Ethyl methyl carbonate	623-53-0	433-480-9	7.2
Copper Foil	7440-50-8	231-159-6	6.9
Ethylene carbonate	96-49-1	202-510-0	4.8
Aluminum Foil	7429-90-5	231-072-3	4.4
Lithium hexafluorophosphate	21324-40-3	244-334-7	2.8
Polyethylene	9002-88-4	618-339-3	2.5
Dimethyl carbonate	616-38-6	210-478-4	2.4
Propylene carbonate	108-32-7	203-572-1	1.2
Diethyl carbonate	105-58-8	203-311-1	1.2

Part 4: First aid measures

Description of necessary 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	No harm in general situation. First aid is not needed.
Ingestion	Never give anything by mouth to an unconscious person. Call a physician immediately.
Inhalation	Move victim into fresh air. If breathing is difficult, give oxygen 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.

Symptoms caused by exposure

1	Please see section 11.

Medical attention and special treatment

1	Treat symptomatically.
2	Symptoms may be delayed.

Part 5: Fire-fighting measures

Extinguishing media

Suitable extinguishing media	Small fire or fire involving small battery: water spray only (large amounts); Large fire or fire involving large battery or multiple small batteries: Allow battery fire to burn itself out and protect surroundings. Safely remove undamaged containers from area. Apply water spray to neighboring batteries to reduce the spread of the hazard. A lithium ion battery fire may reignite at any point after the initial fire is extinguished, up to weeks later. Use thermal imaging, if available, to continuously monitor the battery. Reignition can be accompanied by off-gassing of white smoke or electrical arcs or sparks that reignite with visible flames or fire.
Unsuitable extinguishing media	Small fire or fire involving small battery: Do not us dry chemical, CO_2 or Halon®. The use of salt water for firefighting is not recommended since it may increase production of hydrogen and hydrogen fluoride gas.

Specific hazards arising from the chemical

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 firefighters

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 firefighting wastewater from contaminating surface water or the ground water system.

Part 6: Accidental release measures

Personal 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.

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	Keep leaks in a ventilated place.
2	Cut off the source of the leak as much as possible.
3	Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.
4	Isolation of contaminated areas and restrictions on access.
5	It is recommended that emergency personnel wear dust masks.
6	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.

Part 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.
4	Store away from incompatible materials and foodstuff containers.

Part 8: Exposure controls/personal protection

Exposure control measures

◆ Occupational exposure limit values

Component	Country/Region	Limit value - Eight hours		Limit value - Short term	
		ppm	mg/m³	ppm	mg/m³
Copper Foil	Australia	-	0.2(fume, respirable fraction)	-	-
	Canada - Ontario	-	0.2(fume, respirable fraction)	-	-
	Canada - Québec	-	0.2(fume, respirable fraction)	-	-
	New Zealand	-	0.01	-	-
	USA - ACGIH	-	1(dust and mist)	-	-
	USA - ACGIH	-	0.2(fume)	-	-
Aluminum Foil	Australia	-	5(powder, pyrophoric)	-	-
	Canada - Ontario	1	-	-	-
	Canada - Québec	-	10	-	-
	New Zealand	-	5(pyrophoric powder)	-	-
	USA - ACGIH	-	1(respirable fraction)	-	-
	Austria	-	10	-	20
Propylene carbonate	Germany (AGS)	2	8.5	2	8.5
	Germany (DFG)	2	8.5	2	8.5
	Latvia	-	2	-	-
	Switzerland	6	25.5	6	25.5
Diethyl carbonate	Romania	145	700	207	1000

◆ Biological monitoring

Component	Standard	Biological monitoring index	Biological limits value	Sampling time	Remark
Lithium hexafluorophosphate	SCOEL(EU)	Fluorine/urine	8mg/L	end of shift	

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	Set up emergency exit and necessary risk-elimination area.
4	Handle in accordance with good industrial hygiene and safety practice.

Individual protection measures

General requirement	No special requirements, please see the description below.

Eye protection	In general situation, eye protection is not needed. In the production process, when contacting with vapour or dust, tightly fitting safety goggles.
Hand protection	In general situation, hand protection is not needed.
Respiratory protection	In general situation, respiratory protection is not needed. If exposure limits are exceeded or if irritation or other symptoms are experienced, wear dust proof mask or gas defence mask.
Skin and body protection	In general situation, skin and body protection are not needed.

检验检测专用章

Part 9: Physical and chemical properties

Physical and chemical properties

Appearance	Black cuboid
Odour	No special odor
Odour threshold	No information available
pH	No information available
Melting point/freezing point(℃)	No information available
Boiling point or initial boiling point and boiling range(℃)	No information available
Flash point(Closed cup,℃)	Not applicable
Evaporation rate	Not applicable
Flammability	Not flammable
Lower and upper explosion limit/flammability limit [%(v/v)]	Upper limit: No information available; Lower limit: No information available
Vapour pressure	Not applicable
Vapour density(Air＝1)	Not applicable
Relative density(Water=1)	No information available
Solubility	Insoluble in water
Partition coefficient n-octanol/water (log value)	No information available
Auto-ignition temperature(℃)	No information available
Decomposition temperature(℃)	No information available
Viscosity	Not applicable

Other safety information

Biodurability or biopersistence	No information available	Shape and aspect ratio	No information available
Crystallinity	No information available	Size distribution	No information available
Dustiness	No information available	Specific heat value	No information available
Particle size	No information available	Surface area	No information available
Redox potential	No information available	Surface coating or chemistry	No information available
Release of invisible flammable vapours and gases	No information available		
Degree of aggregation or agglomeration, and dispersibility	No information available		
Saturated vapour concentration	No information available		

Part 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	Reacts with Hg severely and forms amalgam.
Conditions to avoid	Incompatible materials, heat, flame and spark.
Incompatible materials	Oxidants, halogen, interhalogen and mercury.
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Part 11: Toxicological information

Acute toxicity

Component	LD_{50}(oral)	LD_{50}(dermal)	LC_{50}(inhalation,4h)
Dimethyl carbonate	13000mg/kg(Rat)	> 5000mg/kg(Rabbit)	No information available
Ethylene carbonate	10000mg/kg(Rat)	> 3000mg/kg(Rabbit)	No information available
Propylene carbonate	34600mg/kg(Rat)	＞ 23800mg/kg(Rabbit)	No information available

Carcinogenicity

Component	List of carcinogens by the IARC Monographs	Report on Carcinogens by NTP
Ferrous Lithium Phosphate	Not Listed	Not Listed
Carbon	Not Listed	Not Listed
Ethyl methyl carbonate	Not Listed	Not Listed
Copper Foil	Not Listed	Not Listed
Ethylene carbonate	Not Listed	Not Listed
Aluminum Foil	Not Listed	Not Listed
Lithium hexafluorophosphate	Not Listed	Not Listed
Polyethylene	Category 3	Not Listed
Dimethyl carbonate	Not Listed	Not Listed
Propylene carbonate	Not Listed	Not Listed
Diethyl carbonate	Not Listed	Not Listed

Others

Rechargeable Li-ion Battery Module Battery vision top pack 2.1 (4.6 kWh)	
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	Based on available data, the classification criteria are not met
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

Part 12: Ecological information

Ecotoxicity

- Acute aquatic toxicity

Component	Fish	Crustaceans	Algae or other aquatic plants
Ethyl methyl carbonate	LC_{50}: ＞100mg/L (96h)(Fresh water fish)	EC_{50}: > 100mg/L (48h)(Daphnia magna)	ErC_{50}: > 62mg/L (72h)(Algae)
Dimethyl carbonate	LC_{50}: ≥ 100mg/L (96h)(Fresh water fish)	EC_{50}: > 100mg/L (48h)(Daphnia magna)	ErC_{50}: > 57.29mg/L (72h)(Freshwater algae)
Diethyl carbonate	LC_{50}: 100mg/L (96h)(Fresh water fish)	No information available	ErC_{50}: > 100mg/L (72h)(Desmodesmus subspicatus)
Aluminum Foil	LC_{50}: 1.55mg/L (96h)(Fish)	No information available	No information available
Ethylene carbonate	LC_{50}: ＞100mg/L (96h)(Fish)	EC_{50}: > 100mg/L (48h)(Ceriodaphnia dubia)	ErC_{50}: > 100mg/L (72h)(Algae)
Ferrous Lithium Phosphate	LC_{50}: ＞28mg/L (96h)(Fresh water fish)	EC_{50}: > 28mg/L (48h)(Aquatic invertebrates)	ErC_{50}: > 24mg/L (72h)(Algae)
Propylene carbonate	LC_{50}: 1000mg/L (96h)(Fresh water fish)	No information available	No information available
Lithium hexafluorophosphate	LC_{50}: 68mg/L (96h)(Fresh water fish)	No information available	No information available
Copper Foil	LC_{50}: 0.665mg/L (96h)(Fish)	EC_{50}: 0.02mg/L (48h)(Daphnia magna)	ErC_{50}: 7.9mg/L (96h)(Freshwater algae)

- Chronic aquatic toxicity

Component	Fish	Crustaceans	Algae or other aquatic plants
Lithium hexafluorophosphate	NOEC: 3.1mg/L(Fish)	No information available	No information available

Persistence and degradability

Component	Persistence (water/soil)	Persistence (air)
Ethyl methyl carbonate	High	High
Ethylene carbonate	High	High
Polyethylene	Low	Low
Propylene carbonate	High	High

Bioaccumulative potential

Component	Bioaccumulative potential	Comments
Ethyl methyl carbonate	Low	Log Kow=0.7247
Ethylene carbonate	Low	Log Kow=-0.3388
Polyethylene	Low	Log Kow=1.2658
Propylene carbonate	Low	Log Kow=-0.41

Mobility in soil

Component	log Koc	Remark	Data source
Ferrous Lithium Phosphate	-0.252		ECHA
Ethyl methyl carbonate	0.199	40℃	ECHA
Ethylene carbonate	1.08	20 ℃	ECHA
Polyethylene	1.155		Chemwatch
Dimethyl carbonate	0.4624- 0.82282		ECHA

Propylene carbonate	0.81	20 ℃	ECHA
Diethyl carbonate	0.98- 1.37		ECHA

Results of PBT and vPvB assessment

Component	Results of PBT and vPvB assessment [according to (EC) No 1907/2006 with amendment 2020/878]
Ferrous Lithium Phosphate	No information available
Carbon	No information available
Ethyl methyl carbonate	Not PBT/vPvB
Copper Foil	Not applicable
Ethylene carbonate	Not PBT/vPvB
Aluminum Foil	Not applicable
Lithium hexafluorophosphate	Not applicable
Polyethylene	No information available
Dimethyl carbonate	Not PBT/vPvB
Propylene carbonate	Not PBT/vPvB
Diethyl carbonate	Not PBT/vPvB

Part 13: Disposal considerations

Disposal methods

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.

Part 14: Transport information

Label

Transporting Label	

IMDG-CODE

UN number	3480
UN proper shipping name	LITHIUM ION BATTERIES (including lithium ion polymer batteries)
Transport hazard class	9
Transport subsidiary hazard class	None
Packing group	/
Marine pollutant (Yes or no)	No
EmS No.	F-A，S-I

ICAO/IATA-DGR

UN number	3480

UN proper shipping name	LITHIUM ION BATTERIES (including lithium ion polymer batteries)
Transport hazard class	9
Transport subsidiary hazard class	None
Packing group	/

UN-ADR

UN number	3480
UN proper shipping name	LITHIUM ION BATTERIES(including lithiumion polymer batteries)
Transport hazard class	9
Transport subsidiary hazard class	None
Packing group	/

ADG-CODE

UN number	3480
UN proper shipping name	LITHIUM ION BATTERIES (including lithium ion polymer batteries)
Transport hazard class	9
Transport subsidiary hazard class	None
Packing group	/
Environmental hazards	Not marine pollutant
Additional information	No information available

Special precautions for user

	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. Packagings shall conform to the packing group II performance level.

Transport in bulk according to IMO instruments

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

	No information available

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

	No information available

- Transport in bulk in accordance with the IGC Code

	No information available

Hazchem or emergency action code

Hazchem or emergency action code	2Y

Part 15: Regulatory information

International chemical inventory

Component	A	B	C	D	E	F	G	H	I	J	K	L	M
Ferrous Lithium Phosphate	√	×	√	√	×	×	√	×	×	×	×	√	√
Carbon	×	×	×	×	×	×	×	×	×	×	×	×	×

Ethyl methyl carbonate	√	×	√	√	×	√	√	×	√	×	×	√	√
Copper Foil	√	√	√	√	√	√	√	√	×	√	√	√	√
Ethylene carbonate	√	√	√	√	√	√	√	√	√	×	×	√	√
Aluminum Foil	√	√	√	√	√	√	√	√	×	√	√	√	√
Lithium hexafluorophosphate	√	√	√	√	×	√	√	√	×	√	×	√	√
Polyethylene	√	×	√	√	√	√	√	√	√	√	√	√	√
Dimethyl carbonate	√	√	√	√	√	√	√	√	√	√	√	√	√
Propylene carbonate	√	√	√	√	√	√	√	√	√	√	√	√	√
Diethyl carbonate	√	√	√	√	√	√	√	√	√	√	√	√	√

【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 Chemicals(AIIC)
【I】 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	A	B	C
Ferrous Lithium Phosphate	×	×	×
Carbon	×	×	×
Ethyl methyl carbonate	×	×	×
Copper Foil	×	×	×
Ethylene carbonate	×	×	×
Aluminum Foil	×	×	×
Lithium hexafluorophosphate	×	×	×
Polyethylene	×	×	×
Dimethyl carbonate	×	×	×
Propylene carbonate	×	×	×
Diethyl carbonate	×	×	×

【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

Note:

"√" Indicates that the substance included in the regulations.

"×" No data or not included in the regulations.

Part 16: Other information

Information on revision

Creation Date	2026/10/20
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	Organisation 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 Transport 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
P_{OW}	Partition coefficient Octanol: Water	CMR	Carcinogens, mutagens or substances toxic to reproduction
BCF	Bioconcentration factor	RPE	Respiratory Protective Equipment
ED	Endocrine disruptor	G1	Carcinogenic to humans
G2A	Probably carcinogenic to humans	G2B	Possibly carcinogenic to humans
G3	Not yet classified as carcinogenic to humans	G4	Probably not carcinogenic to humans

Disclaimer

This Safety Data Sheet (SDS) was prepared according to Model Work Health and Safety Regulations 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.