

Design Report of Safety Data Sheet

*Product Name:	Li-ion Battery Module 1K5-BAT-S-4660
*Applicant:	FOXESS CO., LTD.
Supplier:	FOXESS CO., LTD.
Importer	FOXESS AUSTRALIA PTY LTD
*Composition of the product:	Ferrous Lithium Phosphate(CAS: 15365-14-7): 35%; Graphite(CAS: 7782-42-5): 18%; Aluminium(CAS: 7429-90-5): 15%; Copper(CAS: 7440-50-8): 7%; Ethyl methyl carbonate(CAS: 623-53-0): 6%; Details on the next page
Warranty of Design:	Australian WHS (Work Health and Safety Regulations) and ADG (Australian Code for the Transport of Dangerous Goods by Road & Rail)
*Information materials:	HGBZ2408F3Z 《Application》、P130452 《Declaration of consistency of components of the sample submitted for inspection》、P130452 《UN 38.3》、P130452-Product Picture
Design Result of SDS please see next page.	
Designer:	王柳柳
Auditor:	江帆
Approver:	戎霄
<p>常州合規思遠產品安全技術服務有限公司</p> <p>Changzhou Hegui Siyuan Products Safety Technology Service Co., Ltd.</p> <p>检验检测专用章</p>	

Notes: This SDS is valid before the the next WHS revision.



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

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1. According to the needs of the report, the company requires the commissioner to provide real and complete samples and information (see the report belt ★). The company does not assume any consequences caused by false, misleading, concealment, and major omissions due to the entrusted party. For example, when the chemical information submitted by the commissioner, the changes in authoritative databases and related policies affect the conclusion of this report, this report automatically fails. In this report, the data is only responsible for the commissioner's inspection samples. It is not applicable to products of the same batch, the same specifications or the same brand other than the test sample. , Correction and rationality of the process or process. The accuracy of the information of the sample component information shall be responsible for the commissioner.
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Safety Data Sheet

Li-ion Battery Module 1K5-BAT-S-4660

Version : V2.0.1.1

Report No. : HGBZ2408F3Z1

Creation Date : 2024/08/29

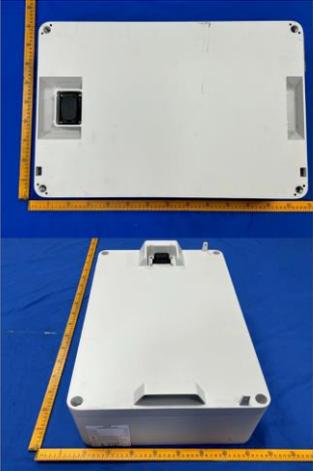
Revision Date : -

*According to WHS and ADG requirements



1 Identification

Product identifier

Product Name	Li-ion Battery Module 1K5-BAT-S-4660																														
Product Model	1K5-BAT-S-4660																														
CAS No.	Not applicable																														
EC No.	Not applicable																														
Molecular Formula	Not applicable																														
Product Picture	 <table border="1"><thead><tr><th colspan="2">FOX Li-ion Battery Module</th></tr></thead><tbody><tr><td>Model:</td><td>1K5-BAT-S-4660</td></tr><tr><td>Rated capacity:</td><td>104 Ah</td></tr><tr><td>Usable energy:</td><td>4.19 kWh</td></tr><tr><td>Nominal energy:</td><td>4.66 kWh</td></tr><tr><td>Nominal voltage:</td><td>44.8 V</td></tr><tr><td>Voltage range:</td><td>40.6-51.5 V</td></tr><tr><td>Max. charge/discharge current:</td><td>50/50 A</td></tr><tr><td>Ingress protection:</td><td>IP65</td></tr><tr><td>Protective class:</td><td>Class I</td></tr><tr><td>Operating charge/discharge temperature:</td><td>0-55/-10-55 °C</td></tr><tr><td>CAUTION</td><td><ul style="list-style-type: none">Do not disassemble the battery.Do not immerse the battery in water.Do not short-circuit the battery.Do not leave the battery near fire.</td></tr><tr><td>Emergency Situations</td><td><ul style="list-style-type: none">If leaking, on fire, wet or damaged, switch off the DC switch and move away from the battery.Do not touch any leaking liquid. Do not use water or sand. Dry powder extinguishers should be used.</td></tr><tr><td>Manufacturer:</td><td>FOXESS CO., LTD.</td></tr><tr><td>Made in China</td><td>99-200-00070-00</td></tr></tbody></table>	FOX Li-ion Battery Module		Model:	1K5-BAT-S-4660	Rated capacity:	104 Ah	Usable energy:	4.19 kWh	Nominal energy:	4.66 kWh	Nominal voltage:	44.8 V	Voltage range:	40.6-51.5 V	Max. charge/discharge current:	50/50 A	Ingress protection:	IP65	Protective class:	Class I	Operating charge/discharge temperature:	0-55/-10-55 °C	CAUTION	<ul style="list-style-type: none">Do not disassemble the battery.Do not immerse the battery in water.Do not short-circuit the battery.Do not leave the battery near fire.	Emergency Situations	<ul style="list-style-type: none">If leaking, on fire, wet or damaged, switch off the DC switch and move away from the battery.Do not touch any leaking liquid. Do not use water or sand. Dry powder extinguishers should be used.	Manufacturer:	FOXESS CO., LTD.	Made in China	99-200-00070-00
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Recommended use of the product and restrictions on use

Relevant identified uses	The 1K5-BAT-S-4660 is the battery nodule in the 1K5-BAT-4660-Lx BatterySystem, x=2/3/4/5/6/7/8/9
Uses advised against	Please consult manufacturer.

Details of the supplier

Applicant Name	FOXESS CO., LTD.
Applicant Address	No.939, Jinhai Third Road, New Airport Industry Area, Longwan District, Wenzhou, Zhejiang, China
Applicant Post Code	325058
Applicant Telephone	0510-68092998
Applicant Fax	-
Applicant E-mail	foxrd@fox-ess.com
Supplier Name	FOXESS CO., LTD.
Supplier Address	No.939, Jinhai Third Road, New Airport Industry Area, Longwan District, Wenzhou, Zhejiang, China
Supplier Post Code	325058
Supplier Telephone	0510-68092998
Supplier Fax	-

Supplier E-mail	foxrd@fox-ess.com
Importer Name	FOXESS AUSTRALIA PTY LTD
Importer Address	Unit 2, 38-40 PROSPECT STREET, BOX HILL, VIC
Importer Post Code	3128
Importer Telephone	+61 411 834 749
Importer Fax	—
Importer E-mail	david@fox-ess.com



Emergency phone number

Emergency phone number	0510-68092998
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2 Hazard(s) identification

Hazard classification according to WHS

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. According to WHS, not classified as a hazardous chemical.

Label elements

Hazard pictograms	Not applicable
Signal word	Not applicable

Hazard statements

Hazard statements	Not applicable
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Precautionary statements

◆ Prevention

Prevention	Not applicable
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◆ Response

Response	Not applicable
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◆ Storage

Storage	Not applicable
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◆ Disposal

Disposal	Not applicable
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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.
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◆ 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.
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◆ Environmental hazards

Please refer to 12th chapter of SDS.



3 Composition/information on ingredients

Substance/mixture

Mixture

Component	CAS No.	EC No.	Concentration (Volume or weight percent, %)
Ferrous Lithium Phosphate	15365-14-7	604-917-2	35
Graphite	7782-42-5	231-955-3	18
Aluminium	7429-90-5	231-072-3	15
Copper	7440-50-8	231-159-6	7
Ethyl methyl carbonate	623-53-0	613-014-2	6
Dimethyl carbonate	616-38-6	210-478-4	6
Ethylene carbonate	96-49-1	202-510-0	6
Polyethylene	9002-88-4	618-339-3	4
Carbon	7440-44-0	231-153-3	1
Poly(1,1-difluoroethylene)	24937-79-9	607-458-6	1
Polymerized Styrene Butadiene Rubber	9003-55-8	618-370-2	0.7
Carboxymethylcellulose Sodium	9004-32-4	618-378-6	0.3

4 First-aid measures

Description of first aid measures

General advice	Immediate medical attention is required. Show this safety data sheet (SDS) to the doctor in attendance.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.
Skin contact	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.

Most important symptoms/effects, acute and delayed

1 Please see section 11.

Indication of any immediate medical attention and special treatment needed

1 Treat symptomatically.

2 Symptoms may be delayed.



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 use dry chemical, CO2 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 substance or mixture

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

Special protective equipment and precautions for fire-fighters

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

7 Handling and storage

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.

8 Exposure controls/personal protection

Control parameters

Component	Country/Region	Limit value - Eight hours		Limit value - Short term	
		ppm	mg/m ³	ppm	mg/m ³
Graphite	Australia	-	3	-	-
	Canada - Ontario	-	2	-	-
	Canada - Québec	-	2	-	-
	France	-	2(respirable aerosol)	-	-
	Germany (DFG)	-	0.3	-	2.4
	New Zealand	-	3	-	-
Aluminium	Australia	-	5(powder, pyrophoric)	-	-
	Canada - Ontario	1	-	-	-
	Canada - Québec	-	10	-	-
	France	-	10(inhalable aerosol)	-	-
	Germany (DFG)	-	4	-	-
	New Zealand	-	5(pyrophoric powder)	-	-
Copper	Australia	-	0.2(fume, respirable fraction)	-	-
	Canada - Ontario	-	0.2(fume, respirable fraction)	-	-
	Canada - Québec	-	0.2(fume, respirable fraction)	-	-
	France	-	0.2(fume, respirable fraction)	-	-
	Germany (DFG)	-	0.01	-	0.02
	New Zealand	-	0.01	-	-

◆ Biological limit values

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

| Personal protection equipment

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.

9 Physical and chemical properties

| Physical and chemical properties

Physical state	Solid (see picture for details)
Colour	No information available
Odor	No special odor
Odor threshold	No information available
pH	No information available
Melting point/freezing point(°C)	No information available
Initial boiling point and boiling range(°C)	No information available
Flash point(Closed cup,°C)	Not applicable
Evaporation rate	Not applicable
Flammability	Not flammable
Upper/lower explosive limits[% (v/v)]	Upper limit : No information available ; Lower limit : No information available
Vapor pressure	Not applicable
Relative vapour density(Air = 1)	Not applicable
Relative density(Water=1)	No information available
Solubility	Insoluble in water
n-octanol/water partition coefficient	No information available
Auto-ignition temperature(°C)	No information available
Decomposition	No information available

temperature(°C)	
Kinematic viscosity	Not applicable
Particle characteristics	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	No information available.
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.

11 Toxicological information

| Acute toxicity

Component	LD ₅₀ (oral)	LD ₅₀ (dermal)	LC ₅₀ (inhalation,4h)
Carboxymethylcellulose Sodium	27000mg/kg(Rat)	> 2000mg/kg(Rabbit)	> 5.8mg/L(Rat)
Dimethyl carbonate	13000mg/kg(Rat)	> 5000mg/kg(Rabbit)	No information available
Ethylene carbonate	10000mg/kg(Rat)	> 3000mg/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
Graphite	Not Listed	Not Listed
Aluminium	Not Listed	Not Listed
Copper	Not Listed	Not Listed
Ethyl methyl carbonate	Not Listed	Not Listed
Dimethyl carbonate	Not Listed	Not Listed
Ethylene carbonate	Not Listed	Not Listed
Polyethylene	Category 3	Not Listed
Carbon	Not Listed	Not Listed
Poly(1,1-difluoroethylene)	Not Listed	Not Listed
Polymerized Styrene Butadiene Rubber	Category 3	Not Listed
Carboxymethylcellulose Sodium	Not Listed	Not Listed

| Others

Li-ion Battery Module 1K5-BAT-S-4660	
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

12 Ecological information

Acute aquatic toxicity

Component	Fish	Crustaceans	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)
Carboxymethylcellulose Sodium	No information available	EC ₅₀ : 87.3mg/L (48h)(Daphnia magna)	No information available
Graphite	LC ₅₀ : 100mg/L (96h)(Fresh water fish)	No information available	No information available
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)
Aluminium	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)
Copper	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

Chronic aquatic toxicity	No information available
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Persistence and degradability

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

Bioaccumulative potential

Component	Bioaccumulative potential	Comments
Graphite	Low	Log Kow=0.5294

Ethyl methyl carbonate	Low	Log Kow=0.7247
Ethylene carbonate	Low	Log Kow=-0.3338
Polyethylene	Low	Log Kow=1.2658

| Mobility in soil

Component	Mobility in soil	Soil Organic Carbon-Water Partitioning Coefficient (Koc)
Graphite	Low	23.74
Ethyl methyl carbonate	Low	15.22
Ethylene carbonate	Low	9.168
Polyethylene	Low	14.3

| Results of PBT and vPvB assessment

Component	Results of PBT and vPvB assessment [according to (EC) No 1907/2006]
Ferrous Lithium Phosphate	No information available
Graphite	Not applicable
Aluminium	Not applicable
Copper	Not applicable
Ethyl methyl carbonate	Not PBT/vPvB
Dimethyl carbonate	Not PBT/vPvB
Ethylene carbonate	Not PBT/vPvB
Polyethylene	No information available
Carbon	No information available
Poly(1,1-difluoroethylene)	No information available
Polymerized Styrene Butadiene Rubber	No information available
Carboxymethylcellulose Sodium	No information available

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

Transporting Label	
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Sea transport (IMDG-Code / GGVSee)

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	Packagings shall conform to the packing group II performance level
Marine pollutant (Yes or no)	No

Air transport (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	Packagings shall conform to the packing group II performance level

Land transport (ADG-Code)

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	Packagings shall conform to the packing group II performance level

15 Regulatory information

International chemical inventory

Component	EC inventory	TSCA	DSL	IECSC	NZIoC	PICCS	KECI	AIICS	ENCS
Ferrous Lithium Phosphate	×	√	√	√	×	×	√	×	√
Graphite	√	√	√	√	√	√	√	√	×
Aluminium	√	√	√	√	√	√	√	√	√
Copper	√	√	√	√	√	√	√	√	√
Ethyl methyl carbonate	√	√	×	√	×	√	√	×	√
Dimethyl carbonate	√	√	√	√	√	√	√	√	√
Ethylene carbonate	√	√	√	√	√	√	√	√	√
Polyethylene	×	√	√	√	√	√	√	√	√
Carbon	√	√	√	√	√	√	√	√	√

Poly(1,1-difluoroethylene)	×	√	√	√	√	√	√	√	√
Polymerized Styrene Butadiene Rubber	×	√	√	√	√	√	√	√	√
Carboxymethylcellulose Sodium	×	√	√	√	√	√	√	√	√

[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

Note:

- “√” Indicates that the substance included in the regulations.
 “×” No data or not included in the regulations.

16 Other information

Information on revision

Creation Date	2024/08/29
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
P _{OW}	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 WHS. 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.

