

正本/ORIGINAL

Design Report of Safety Data Sheet

*Product Name:	Rechargeable Li-ion Battery Pack FlexCore-ID-BAT20kWh
*Applicant:	Ginlong Energy Storage Co., Ltd.
Supplier:	Zhejiang Boshi New Energy Technology Co., Ltd
*Composition of the product:	Lithium iron phosphate(CAS: 15365-14-7): 37.0%; Graphite(CAS: 7782-42-5): 19.1%; EMC(CAS: 623-53-0): 12.2%; Copper(CAS: 7440-50-8): 7.5%; EC(CAS: 96-49-1): 6.1%; Details on the next page
Warranty of Design:	GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELLING OF CHEMICALS (GHS) Eleventh revised edition
*Information materials:	HGBZ2604JQL 《Application》、P163672 《Declaration of consistency of components of the sample submitted for inspection》、P163672 《UN 38.3》、P163672-Product Picture
Design Result of SDS please see next page. Designer: 江帆 Auditor: 吴珂 Approver: 戎霄 常州合规思远产品安全技术有限公司 Changzhou Hegui Siyuan Products Safety Technology Service Co., Ltd.	

Notes: This SDS is valid before the implementation of the twelfth revised edition GHS.



正本/ORIGINAL

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

***Composition of
the product:**

Lithium iron phosphate(CAS: 15365-14-7): 37.0%; Graphite(CAS: 7782-42-5):
19.1%; EMC(CAS: 623-53-0): 12.2%; Copper(CAS: 7440-50-8): 7.5%; EC(CAS:
96-49-1): 6.1%; High molecular polymer: 5.5%; Others: 4.8%; Aluminium(CAS:
7429-90-5): 4.6%; lithium hexafluorophosphate(CAS: 21324-40-3): 3.2%

检验检测专用章



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9. Due to force majeure, national legal policies, administrative mandatory behavior or judicial compulsory behavior, the inspection samples provided by the commissioner are damaged and lost, resulting in inspection reports that cannot be issued, or caused any losses and costs of the client, the company will not be liable for compensation.



Rechargeable Li-ion Battery Pack

FlexCore-ID-BAT20kWh

Version: V2.0.1.1
Report No.: HGBZ2604JQL2
Creation Date: 2026/04/09
Revision Date: -
***According to GHS (Eleventh Revised Edition)**



Part 1: Identification

Product identifier	
Product Name	Rechargeable Li-ion Battery Pack FlexCore-ID-BAT20kWh
Product Model	FlexCore-ID-BAT20kWh
CAS No.	Not applicable
EC No.	Not applicable
Molecular Formula	Not applicable
Product Picture	

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

Applicant Name	Ginlong Energy Storage Co., Ltd.
Applicant Address	No.57 Jintong Road, Binhai Industrial Park, DongChen, Xiangshan, 315712 Ningbo, Zhejiang, PEOPLE'S REPUBLIC OF CHINA
Applicant Post Code	——
Applicant Telephone	0574-65781609
Applicant Fax	0574-65781609
Applicant E-mail	——
Supplier Name	Zhejiang Boshi New Energy Technology Co., Ltd

Supplier Address	No. 101, Workshop 1, No. 2069 East Outer Ring Road, Huimin Sub-district, Jiashan, Jiaxing, Zhejiang, China
Supplier Post Code	——
Supplier Telephone	0571 86925880
Supplier Fax	——
Supplier E-mail	——



Emergency phone number	
Emergency phone number	0574-65801606

Part 2: Hazard(s) identification

Hazard classification according to GHS

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 GHS system (11th revised edition), not classified as a hazardous chemical.

GHS 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
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.

Part 3: Composition/information on ingredients



Substance/mixture

Mixture

Component	CAS No.	EC No.	Concentration (weight percent, %)
Lithium iron phosphate	15365-14-7	604-917-2	37.0
Graphite	7782-42-5	231-955-3	19.1
EMC	623-53-0	433-480-9	12.2
Copper	7440-50-8	231-159-6	7.5
EC	96-49-1	202-510-0	6.1
High molecular polymer	-	-	5.5
Others	-	-	4.8
Aluminium	7429-90-5	231-072-3	4.6
lithium hexafluorophosphate	21324-40-3	244-334-7	3.2

Part 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.

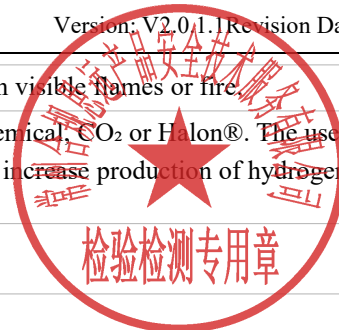
2 Symptoms may be delayed.

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
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	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, 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 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.

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.

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

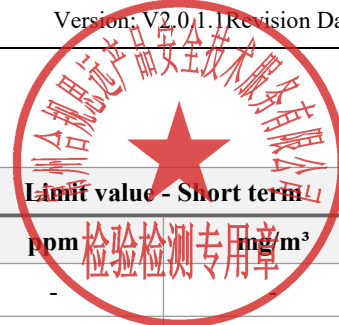
Precautions for safe handling

- 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



Control parameters

Occupational exposure limit values

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(inhalable aerosol)	-	-
	Germany (DFG)	-	0.3	-	2.4
	New Zealand	-	3	-	-
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	-	-
Aluminium	Australia	-	5(powder, pyrophoric)	-	-
	Canada - Ontario	1	-	-	-
	Canada - Québec	-	10	-	-
	France	-	10(inhalable aerosol)	-	-
	Germany (DFG)	-	4	-	-
	New Zealand	-	5(pyrophoric powder)	-	-

Biological limit values

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

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 and GBZ/T 160 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.

Part 9: Physical and chemical properties

Physical and chemical properties

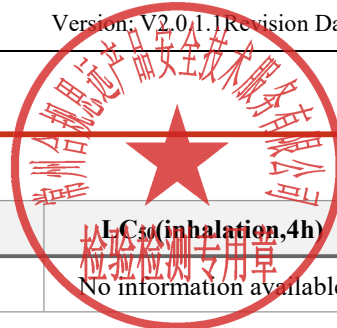
Physical state	Lithium ion batteries
Colour	White
Odor	No special odor
Odor threshold	No information available
pH	No information available
Melting point/freezing point(°C)	No information available
Initial boiling point and boiling range(°C)	No information available
Flash point(Closed cup,°C)	Not applicable
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 temperature(°C)	No information available
Kinematic viscosity	Not applicable
Particle characteristics	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)
EC	10000mg/kg(Rat)	> 3000mg/kg(Rabbit)	No information available

Carcinogenicity

Component	List of carcinogens by the IARC Monographs	Report on Carcinogens by NTP
Lithium iron phosphate	Not Listed	Not Listed
Graphite	Not Listed	Not Listed
EMC	Not Listed	Not Listed
Copper	Not Listed	Not Listed
EC	Not Listed	Not Listed
High molecular polymer	Not Listed	Not Listed
Others	Not Listed	Not Listed
Aluminium	Not Listed	Not Listed
lithium hexafluorophosphate	Not Listed	Not Listed

Others

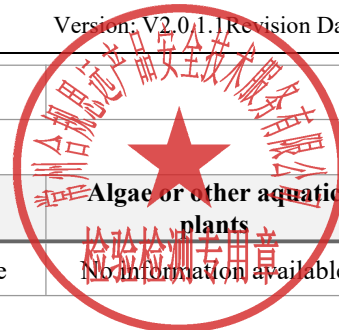
Rechargeable Li-ion Battery Pack FlexCore-ID-BAT20kWh	
Skin corrosion/irritation	Based on available data, the classification criteria are not met
Serious eye damage/irritation	Based on available data, the classification criteria are not met
Skin sensitization	Based on available data, the classification 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

Acute aquatic toxicity

Component	Fish	Crustaceans	Algae or other aquatic plants
Lithium iron phosphate	LC ₅₀ : >28mg/L (96h)(Fresh water fish)	EC ₅₀ : > 28mg/L (48h)(Aquatic invertebrates)	ErC ₅₀ : > 24mg/L (72h)(Algae)
Aluminium	LC ₅₀ : 1.55mg/L (96h)(Fish)	No information available	No information available
EMC	LC ₅₀ : >100mg/L (96h)(Fresh water fish)	EC ₅₀ : > 100mg/L (48h)(Daphnia magna)	ErC ₅₀ : > 62mg/L (72h)(Algae)
EC	LC ₅₀ : >100mg/L (96h)(Fish)	EC ₅₀ : > 100mg/L (48h)(Ceriodaphnia dubia)	ErC ₅₀ : > 100mg/L (72h)(Algae)
Graphite	LC ₅₀ : 100mg/L (96h)(Fresh water fish)	No information available	No information available
Copper	LC ₅₀ : 0.665mg/L (96h)(Fish)	EC ₅₀ : 0.02mg/L (48h)(Daphnia magna)	ErC ₅₀ : 7.9mg/L (96h)(Freshwater algae)
lithium hexafluorophosphate	LC ₅₀ : 68mg/L (96h)(Fresh	No information available	No information available

	water fish)	
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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)
Graphite	Low	Low
EMC	High	High
EC	High	High

Bioaccumulative potential

Component	Bioaccumulative potential	Comments
Graphite	Low	Log Kow=0.5294
EMC	Low	Log Kow=0.7247
EC	Low	Log Kow=-0.3388

Mobility in soil

Component	log Koc	Remark	Data source
Lithium iron phosphate	-0.252		ECHA
Graphite	1.375		Chemwatch
EMC	0.199	40°C	ECHA
EC	1.08	20 °C	ECHA

Results of PBT and vPvB assessment

Component	Results of PBT and vPvB assessment [according to (EC) No 1907/2006 with amendment 2020/878]
Lithium iron phosphate	No information available
Graphite	Not applicable
EMC	Not PBT/vPvB
Copper	Not applicable
EC	Not PBT/vPvB
High molecular polymer	No information available
Others	No information available
Aluminium	Not applicable
lithium hexafluorophosphate	Not applicable

Part 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
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Part 14: Transport information



Label

Transporting Label	
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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	Packagings shall conform to the packing group II performance level
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	Packagings shall conform to the packing group II performance level

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	Packagings shall conform to the packing group II performance level

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.
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Transport in bulk according to IMO instruments

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

	No information available
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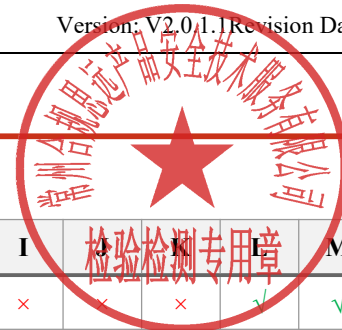
- ◆ Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

	No information available
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- ◆ Transport in bulk in accordance with the IGC Code

	No information available
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Part 15: Regulatory information



International chemical inventory

Component	A	B	C	D	E	F	G	H	I	J	K	L	M
Lithium iron phosphate	√	×	√	√	×	×	√	×	×	×	×	√	√
Graphite	√	√	√	√	√	√	√	√	×	√	√	√	√
EMC	√	×	√	×	×	√	√	×	√	√	×	√	√
Copper	√	√	√	√	√	√	√	√	×	√	√	√	√
EC	√	√	√	√	√	√	√	√	√	×	×	√	√
High molecular polymer	×	×	×	×	×	×	×	×	×	×	×	×	×
Others	×	×	×	×	×	×	×	×	×	×	×	×	×
Aluminium	√	√	√	√	√	√	√	√	×	√	√	√	√
lithium hexafluorophosphate	√	√	√	×	×	√	√	√	×	√	×	√	√

- 【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 Chemical (AIICS)
【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
Lithium iron phosphate	×	×	×
Graphite	×	×	×
EMC	×	×	×
Copper	×	×	×
EC	×	×	×
High molecular polymer	×	×	×
Others	×	×	×
Aluminium	×	×	×
lithium hexafluorophosphate	×	×	×

- 【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	2026/04/09
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.chemportal.org/chemportal/>.
- 【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	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 UN GHS (the 11th revised edition). 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.