

SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



SUCP-70-W

Version 1.2 Revision Date: 2020/11/24 SDS Number: 600000000289 Date of last issue: 2020/04/23
Date of first issue: 2020/04/21

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : SUCP-70-W
CAS-No. : 123-23-9
Chemical nature : Organic Peroxide powder

Manufacturer or supplier's details

Company : United Initiators (Shanghai) Co. Ltd.
Address : Room 201, No. 2398 Hutai Road
200436 Baoshan District Shanghai
Telephone : +86 21 61172758
Emergency telephone number : +86 21 61172758
E-mail address : contact@degussa-aj.com

Recommended use of the chemical and restrictions on use

Recommended use : polymerisation initiators

2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance	: powder
Colour	: white
Odour	: characteristic

Heating may cause a fire. May be harmful if swallowed. Causes severe skin burns and eye damage. Harmful to aquatic life.

GHS Classification

Organic peroxides : Type D
Acute toxicity (Oral) : Category 5
Skin corrosion/irritation : Category 1B
Serious eye damage/eye irritation : Category 1
Short-term (acute) aquatic hazard : Category 3

SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



SUCP-70-W

Version 1.2 Revision Date: 2020/11/24 SDS Number: 600000000289 Date of last issue: 2020/04/23
Date of first issue: 2020/04/21

GHS label elements

Hazard pictograms



Signal word

: Danger

Hazard statements

: H242 Heating may cause a fire.
H303 May be harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H402 Harmful to aquatic life.

Precautionary statements

: **Prevention:**

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P220 Keep/Store away from clothing/ strong acids, bases, heavy metal salts and other reducing substances /combustible materials.
P234 Keep only in original container.
P260 Do not breathe dust or mist.
P264 Wash skin thoroughly after handling.
P273 Avoid release to the environment.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
P312 Call a POISON CENTER/doctor if you feel unwell.
P363 Wash contaminated clothing before reuse.

Storage:

P405 Store locked up.
P410 Protect from sunlight.
P411 + P235 Store at temperatures not exceeding < -10 °C/ < 14 °F. Keep cool.
P420 Store away from other materials.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



SUCP-70-W

Version 1.2 Revision Date: 2020/11/24 SDS Number: 600000000289 Date of last issue: 2020/04/23
Date of first issue: 2020/04/21

Physical and chemical hazards

Heating may cause a fire.

Health hazards

May be harmful if swallowed. Causes severe skin burns and eye damage. Causes serious eye damage.

Environmental hazards

Harmful to aquatic life.

Other hazards which do not result in classification

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Substance
Substance name : 4,4'-dioxo-4,4'-dioxydibutyric acid
CAS-No. : 123-23-9

Components

Chemical name	CAS-No.	Concentration (% w/w)
Butanoic acid, 4,4'-dioxybis[4-oxo-	123-23-9	>= 70 -<= 72

4. FIRST AID MEASURES

General advice : Move out of dangerous area.
Show this safety data sheet to the doctor in attendance.
Do not leave the victim unattended.
Symptoms of poisoning may appear several hours later.
Call a physician immediately.

If inhaled : If unconscious, place in recovery position and seek medical advice.
If symptoms persist, call a physician.
If breathed in, move person into fresh air.

In case of skin contact : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
Wash contaminated clothing before re-use.
If on skin, rinse well with water.
If on clothes, remove clothes.
If symptoms persist, call a physician.

In case of eye contact : Small amounts splashed into eyes can cause irreversible tissue damage and blindness.
In the case of contact with eyes, rinse immediately with plenty

SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



SUCP-70-W

Version	Revision Date:	SDS Number:	Date of last issue: 2020/04/23
1.2	2020/11/24	600000000289	Date of first issue: 2020/04/21

- of water and seek medical advice.
Continue rinsing eyes during transport to hospital.
Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.
- If swallowed : Keep respiratory tract clear.
Do NOT induce vomiting.
Call a physician immediately.
Rinse mouth thoroughly with water.
- Most important symptoms and effects, both acute and delayed : May be harmful if swallowed.
Causes serious eye damage.
Causes severe burns.
- Protection of first-aiders : First Aid responders should pay attention to self-protection and use the recommended protective clothing
- Notes to physician : Treat symptomatically and supportively.
-

5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Water spray jet
Alcohol-resistant foam
Carbon dioxide (CO₂)
Dry chemical
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during fire-fighting : Contact with incompatible materials or exposure to temperatures exceeding SADT may result in a self-accelerating decomposition reaction with release of flammable vapors which may auto-ignite.
The product burns violently.
Flash back possible over considerable distance.
Vapours may form explosive mixtures with air.
Cool closed containers exposed to fire with water spray.
- Specific extinguishing methods : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Do not use a solid water stream as it may scatter and spread fire.
Remove undamaged containers from fire area if it is safe to do so.

SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



SUCP-70-W

Version	Revision Date:	SDS Number:	Date of last issue: 2020/04/23
1.2	2020/11/24	600000000289	Date of first issue: 2020/04/21

Use water spray to cool unopened containers.

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.
Use personal protective equipment.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.
Avoid dust formation.
Avoid breathing dust.
Remove all sources of ignition.
Follow safe handling advice and personal protective equipment recommendations.

Environmental precautions : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up : Contact with incompatible substances can cause decomposition at or below SADT.
Clear spills immediately.
Suppress (knock down) gases/vapours/mists with a water spray jet.
To clean the floor and all objects contaminated by this material, use plenty of water.
Soak up with inert absorbent material.
Isolate waste and do not reuse.
Non-sparking tools should be used.
Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable.

Prevention of secondary hazards : Never return spills in original containers for re-use.
Treat recovered material as described in the section "Disposal considerations".

7. HANDLING AND STORAGE

Handling

Technical measures : See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.

Advice on protection against fire and explosion : Avoid dust formation.
Provide appropriate exhaust ventilation at places where dust is formed.
Keep away from heat and sources of ignition.

SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



SUCP-70-W

Version	Revision Date:	SDS Number:	Date of last issue: 2020/04/23
1.2	2020/11/24	600000000289	Date of first issue: 2020/04/21

- Use only explosion-proof equipment.
Keep away from combustible material.
- Advice on safe handling : Do not swallow.
Do not breathe vapours/dust.
Avoid contact with skin and eyes.
Take precautionary measures against static discharges.
Never return any product to the container from which it was originally removed.
Provide sufficient air exchange and/or exhaust in work rooms.
Avoid confinement.
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Smoking, eating and drinking should be prohibited in the application area.
Wash thoroughly after handling.
For personal protection see section 8.
Protect from contamination.
- Avoidance of contact : Accelerators, strong acids and bases, heavy metals and heavy metal salts, reducing agents
- Storage**
- Conditions for safe storage : Avoid impurities (e.g. rust, dust, ash), risk of decomposition.
Electrical installations / working materials must comply with the technological safety standards.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Store in original container.
Keep containers tightly closed in a cool, well-ventilated place.
Store in accordance with the particular national regulations.
- Materials to avoid : Keep away from strong acids, bases, heavy metal salts and other reducing substances.
- Recommended storage temperature : < -10 °C
- Further information on storage stability : No decomposition if stored normally.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

Engineering measures : Minimize workplace exposure concentrations.

SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



SUCP-70-W

Version	Revision Date:	SDS Number:	Date of last issue: 2020/04/23
1.2	2020/11/24	600000000289	Date of first issue: 2020/04/21

Personal protective equipment

Respiratory protection : In the case of dust or aerosol formation use respirator with an approved filter.

Filter type : Filter type P

Eye/face protection : Tightly fitting safety goggles
Please wear suitable protective goggles. Also wear face protection if there is a splash hazard.
Ensure that eyewash stations and safety showers are close to the workstation location.

Skin and body protection : Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential.

Hand protection

Material : butyl-rubber

Break through time : 480 min

Glove thickness : 0.5 mm

Remarks : Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work. For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday.

Hygiene measures : Keep away from food and drink.
When using do not eat or drink.
When using do not smoke.
Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : powder

Colour : white

Odour : characteristic

Odour Threshold : Not relevant

pH : Not applicable

SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



SUCP-70-W

Version	Revision Date:	SDS Number:	Date of last issue: 2020/04/23
1.2	2020/11/24	600000000289	Date of first issue: 2020/04/21

Melting point/range	:	No data available
Boiling point/boiling range	:	Decomposition: Decomposes below the boiling point.
Flash point	:	Not applicable
Flammability (solid, gas)	:	Not applicable
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	23.4 hPa (20 °C) aqueous phase
Bulk density	:	450 kg/m ³ (20 °C)
Solubility(ies)		
Water solubility	:	No data available
Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Auto-ignition temperature	:	Not applicable
Self-Accelerating decomposition temperature (SADT)	:	30 °C Method: UN-Test H.4 SADT-Self Accelerating Decomposition Temperature. Lowest temperature at which the tested package size will undergo a self-accelerating decomposition reaction.
Viscosity		
Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	No data available
Explosive properties	:	Not explosive
Oxidizing properties	:	The substance or mixture is not classified as oxidizing. Organic peroxide

10. STABILITY AND REACTIVITY

Reactivity	:	Stable under recommended storage conditions.
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SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



SUCP-70-W

Version	Revision Date:	SDS Number:	Date of last issue: 2020/04/23
1.2	2020/11/24	600000000289	Date of first issue: 2020/04/21

Chemical stability	:	Stable under recommended storage conditions.
Possibility of hazardous reactions	:	Dust may form explosive mixture in air.
Conditions to avoid	:	Protect from contamination. Contact with incompatible substances can cause decomposition at or below SADT. Heat, flames and sparks. Avoid confinement.
Incompatible materials	:	Accelerators, strong acids and bases, heavy metals and heavy metal salts, reducing agents
Hazardous decomposition products	:	Irritant, caustic, flammable, noxious/toxic gases and vapours can develop in the case of fire and decomposition

11. TOXICOLOGICAL INFORMATION

Acute toxicity

May be harmful if swallowed.

Product:

Acute oral toxicity	:	LD50 (Rat, female): 2,646 mg/kg
Acute inhalation toxicity	:	Remarks: No data available
Acute dermal toxicity	:	LD50 (Rat, male and female): > 2,000 mg/kg Assessment: The substance or mixture has no acute dermal toxicity Remarks: No mortality observed at this dose. Based on available data, the classification criteria are not met.

Components:

Butanoic acid, 4,4'-dioxybis[4-oxo-:

Acute oral toxicity	:	LD50 (Rat, female): 2,646 mg/kg Method: OECD Test Guideline 401
Acute inhalation toxicity	:	Remarks: No data available
Acute dermal toxicity	:	LD50 (Rat, male and female): > 2,000 mg/kg Assessment: The substance or mixture has no acute dermal toxicity Remarks: No mortality observed at this dose. Based on available data, the classification criteria are not met.

Skin corrosion/irritation

Causes severe burns.

SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



SUCP-70-W

Version	Revision Date:	SDS Number:	Date of last issue: 2020/04/23
1.2	2020/11/24	600000000289	Date of first issue: 2020/04/21

Product:

Result : Causes burns.

Remarks : Extremely corrosive and destructive to tissue.

Components:

Butanoic acid, 4,4'-dioxybis[4-oxo-:

Result : Causes burns.

Serious eye damage/eye irritation

Causes serious eye damage.

Product:

Remarks : May cause irreversible eye damage.

Components:

Butanoic acid, 4,4'-dioxybis[4-oxo-:

Remarks : May cause irreversible eye damage.

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Product:

Remarks : No data available

Components:

Butanoic acid, 4,4'-dioxybis[4-oxo-:

Remarks : No data available

Germ cell mutagenicity

Not classified based on available information.

Product:

Genotoxicity in vitro : Test Type: Ames test
Result: negative

Genotoxicity in vivo : Remarks: No data available

SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



SUCP-70-W

Version	Revision Date:	SDS Number:	Date of last issue: 2020/04/23
1.2	2020/11/24	600000000289	Date of first issue: 2020/04/21

Components:

Butanoic acid, 4,4'-dioxybis[4-oxo-:

Genotoxicity in vitro : Test Type: Ames test
Result: negative

Genotoxicity in vivo : Remarks: No data available

Carcinogenicity

Not classified based on available information.

Product:

Remarks : This information is not available.

Components:

Butanoic acid, 4,4'-dioxybis[4-oxo-:

Remarks : This information is not available.

Reproductive toxicity

Not classified based on available information.

Components:

Butanoic acid, 4,4'-dioxybis[4-oxo-:

Effects on foetal development : Remarks: No data available

STOT - single exposure

Not classified based on available information.

Product:

Remarks : No data available

Components:

Butanoic acid, 4,4'-dioxybis[4-oxo-:

Remarks : No data available

STOT - repeated exposure

Not classified based on available information.

Product:

Remarks : No data available

SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



SUCP-70-W

Version	Revision Date:	SDS Number:	Date of last issue: 2020/04/23
1.2	2020/11/24	600000000289	Date of first issue: 2020/04/21

Components:

Butanoic acid, 4,4'-dioxybis[4-oxo-:

Remarks : No data available

Repeated dose toxicity

Product:

Remarks : No data available

Components:

Butanoic acid, 4,4'-dioxybis[4-oxo-:

Remarks : No data available

Aspiration toxicity

Not classified based on available information.

Product:

Not classified due to data which are conclusive although insufficient for classification.

Components:

Butanoic acid, 4,4'-dioxybis[4-oxo-:

Not classified due to data which are conclusive although insufficient for classification.

Further information

Product:

Remarks : No data available

Components:

Butanoic acid, 4,4'-dioxybis[4-oxo-:

Remarks : No data available

12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Toxicity to fish : LC50 (Brachydanio rerio (zebrafish)): > 73 mg/l
Exposure time: 96 h
Test Type: static test
Method: OECD Test Guideline 203
Remarks: Information given is based on data obtained from similar substances.

SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



SUCP-70-W

Version	Revision Date:	SDS Number:	Date of last issue: 2020/04/23
1.2	2020/11/24	600000000289	Date of first issue: 2020/04/21

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 13 mg/l
Exposure time: 48 h
Test Type: static test
Method: OECD Test Guideline 202
Remarks: Information given is based on data obtained from similar substances.

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 90.822 mg/l
Exposure time: 96 h
Method: ECOSAR (Ecological Structure Activity Relationships)

Components:

Butanoic acid, 4,4'-dioxybis[4-oxo-:

Toxicity to fish : LC50 (Brachydanio rerio (zebrafish)): > 73 mg/l
Exposure time: 96 h
Test Type: static test
Method: OECD Test Guideline 203
Remarks: Information given is based on data obtained from similar substances.

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 13 mg/l
Exposure time: 48 h
Test Type: static test
Method: OECD Test Guideline 202
Remarks: Information given is based on data obtained from similar substances.

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 90.822 mg/l
Exposure time: 96 h
Method: ECOSAR (Ecological Structure Activity Relationships)

Persistence and degradability

Product:

Biodegradability : Result: Readily biodegradable.

Components:

Butanoic acid, 4,4'-dioxybis[4-oxo-:

Biodegradability : Result: Readily biodegradable.

SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



SUCP-70-W

Version	Revision Date:	SDS Number:	Date of last issue: 2020/04/23
1.2	2020/11/24	600000000289	Date of first issue: 2020/04/21

Bioaccumulative potential

Components:

Butanoic acid, 4,4'-dioxybis[4-oxo-:

Partition coefficient: n-octanol/water : Remarks: No data available

Mobility in soil

No data available

Other adverse effects

Product:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life.

Components:

Butanoic acid, 4,4'-dioxybis[4-oxo-:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life.

13. DISPOSAL CONSIDERATIONS

Disposal methods

- Waste from residues : The product should not be allowed to enter drains, water courses or the soil.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Dispose of wastes in an approved waste disposal facility.
- Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.
Do not burn, or use a cutting torch on, the empty drum.
Dispose of in accordance with local regulations.
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14. TRANSPORT INFORMATION

International Regulations

UNRTDG

UN number : UN 3116
Proper shipping name : ORGANIC PEROXIDE TYPE D, SOLID, TEMPERATURE CONTROLLED

SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



SUCP-70-W

Version	Revision Date:	SDS Number:	Date of last issue: 2020/04/23
1.2	2020/11/24	600000000289	Date of first issue: 2020/04/21

(DISUCCINIC ACID PEROXIDE)
Class : 5.2
Packing group : Not assigned by regulation
Labels : 5.2

IATA-DGR

Not permitted for transport

IMDG-Code

UN number : UN 3116
Proper shipping name : ORGANIC PEROXIDE TYPE D, SOLID, TEMPERATURE CONTROLLED (DISUCCINIC ACID PEROXIDE)
Class : 5.2
Packing group : Not assigned by regulation
Labels : 5.2
EmS Code : F-F, S-R
Marine pollutant : no

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

National Regulations

GB 6944/12268

UN number : UN 3116
Proper shipping name : ORGANIC PEROXIDE TYPE D, SOLID, TEMPERATURE CONTROLLED (DISUCCINIC ACID PEROXIDE)
Class : 5.2
Packing group : Not assigned by regulation
Labels : 5.2

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

Additional advice

Temperature controlled transport.:
Control temperature : 10 °C
Emergency temperature : 15 °C

15. REGULATORY INFORMATION

National regulatory information

Gefahrgruppe nach § 3 BGV B4: II (German regulatory requirements)

Regulations on Safety Management of Hazardous Chemicals

Catalogue of Hazardous Chemicals : Listed

SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



SUCP-70-W

Version	Revision Date:	SDS Number:	Date of last issue: 2020/04/23
1.2	2020/11/24	600000000289	Date of first issue: 2020/04/21

The components of this product are reported in the following inventories:

TCSI (TW)	:	On the inventory, or in compliance with the inventory
TSCA (US)	:	All substances listed as active on the TSCA inventory
DSL (CA)	:	This product contains the following components listed on the Canadian NDSL. All other components are on the Canadian DSL. Butanoic acid, 4,4'-dioxybis[4-oxo-
ENCS (JP)	:	On the inventory, or in compliance with the inventory
ISHL (JP)	:	On the inventory, or in compliance with the inventory
KECI (KR)	:	On the inventory, or in compliance with the inventory
PICCS (PH)	:	On the inventory, or in compliance with the inventory
IECSC (CN)	:	On the inventory, or in compliance with the inventory

16. OTHER INFORMATION

Further information

Other information : This safety datasheet only contains information relating to safety and does not replace any product information or product specification.
These safety instructions also apply to empty packaging which may still contain product residues.

Sources of key data used to compile the Safety Data Sheet : Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, <http://echa.europa.eu/>

Date format : yyyy/mm/dd

Full text of other abbreviations

AICS - Australian Inventory of Chemical Substances; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA

SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



SUCP-70-W

Version	Revision Date:	SDS Number:	Date of last issue: 2020/04/23
1.2	2020/11/24	600000000289	Date of first issue: 2020/04/21

- International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

CN / EN