according to GB/T 16483 and GB/T 17519



## NPS-5

Version Revision Date: SDS Number: Date of last issue: 2019/03/21 1.2 2020/06/25 600000000029 Date of first issue: 2018/01/31

#### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : NPS-5

Chemical nature : Persulphate

Solid

### 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 : Oxidizing agents

polymerisation initiators

# 2. HAZARDS IDENTIFICATION

## **Emergency Overview**

Appearance : solid Colour : white

Odour : not significant

May intensify fire; oxidizer. Harmful if swallowed. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation.

### **GHS Classification**

Oxidizing solids : Category 3

Acute toxicity (Oral) : Category 4

Skin corrosion/irritation : Category 2

Serious eye damage/eye irri-

tation

Category 2A

Respiratory sensitisation : Category 1

Skin sensitisation : Category 1

according to GB/T 16483 and GB/T 17519



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single exposure

Specific target organ toxicity - : Category 3 (respiratory tract irritation)

**GHS label elements** 

Hazard pictograms







Signal word Danger

H272 May intensify fire; oxidizer. Hazard statements

> H302 Harmful if swallowed. H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H334 May cause allergy or asthma symptoms or breathing

difficulties if inhaled.

H335 May cause respiratory irritation.

Precautionary statements

Prevention:

P210 Keep away from heat.

P220 Keep/Store away from clothing/ combustible materials. P221 Take any precaution to avoid mixing with combustibles.

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area.

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves/ eye protection/ face protection.

P284 Wear respiratory protection.

Response:

P301 + P312 + P330 IF SWALLOWED: Call a POISON

CENTER/doctor if you feel unwell. Rinse mouth.

P302 + P352 IF ON SKIN: Wash with plenty of water.

P304 + P340 + P312 IF INHALED: Remove person to fresh air

and keep comfortable for breathing. Call a POISON

CENTER/doctor if you feel unwell.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing.

P333 + P313 If skin irritation or rash occurs: Get medical ad-

vice/ attention.

P337 + P313 If eye irritation persists: Get medical advice/ at-

tention.

P342 + P311 If experiencing respiratory symptoms: Call a

POISON CENTER/doctor.

according to GB/T 16483 and GB/T 17519



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P362 + P364 Take off contaminated clothing and wash it before

reuse.

P370 + P378 In case of fire: Use water spray to extinguish.

Storage:

P403 + P233 Store in a well-ventilated place. Keep container

tightly closed.

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste

disposal plant.

#### Physical and chemical hazards

May intensify fire; oxidizer.

#### **Health hazards**

Harmful if swallowed. Causes skin irritation. Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. May cause respiratory irritation.

## **Environmental hazards**

Not classified based on available information.

#### Other hazards which do not result in classification

None known.

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

#### Components

Chemical name	CAS-No.	Concentration (% w/w)
Disodium peroxodisulphate	7775-27-1	>= 95 -<= 100

### 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 : Call a physician or poison control centre immediately.

If unconscious, place in recovery position and seek medical

advice.

Keep respiratory tract clear.

If breathed in, move person into fresh air.

In case of skin contact : In case of contact, immediately flush skin with plenty of water

according to GB/T 16483 and GB/T 17519



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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 In the case of contact with eyes, rinse immediately with plenty

of water and seek medical advice.

Remove contact lenses. Protect unharmed eve.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed Keep respiratory tract clear.

> Call a physician immediately. Rinse mouth thoroughly with water.

Most important symptoms and effects, both acute and

delayed

Harmful if swallowed. Causes skin irritation.

May cause an allergic skin reaction.

Causes serious eye irritation.

May cause allergy or asthma symptoms or breathing difficul-

ties if inhaled.

May cause respiratory irritation.

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

Foam

Unsuitable extinguishing

media

High volume water jet

Specific hazards during fire-

fighting

Contact with incompatible materials or exposure to tempera-

tures exceeding SADT may result in a self-accelerating decomposition reaction with release of flammable vapors which

may auto-ignite.

Cool closed containers exposed to fire with water spray.

Specific extinguishing meth-

ods

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 cir-

cumstances and the surrounding environment.

according to GB/T 16483 and GB/T 17519



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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.

Use water spray to cool unopened containers.

Suppress (knock down) gases/vapours/mists with a water

spray jet.

Special protective equipment

for firefighters

Wear self-contained breathing apparatus for firefighting if nec-

essary.

Use personal protective equipment.

#### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emer-

gency procedures

Use personal protective equipment.

Avoid dust formation. Avoid breathing dust.

Ensure adequate ventilation. Remove all sources of ignition.

Follow safe handling advice and personal protective equip-

ment 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 decomposi-

tion 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 materi-

al, 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 deter-

mine 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

according to GB/T 16483 and GB/T 17519



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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 combustible material.

Advice on safe handling : Do not swallow.

Do not breathe vapours/dust.

Avoid exposure - obtain special instructions before use.

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 ap-

plication area.

Wash thoroughly after handling. For personal protection see section 8.

Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being

used.

Protect from contamination. Protect from moisture.

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.

Keep in a dry 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 tem- :

perature

< 30 °C

Further information on stor- : No decomposition if stored normally.

according to GB/T 16483 and GB/T 17519



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age stability

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Disodium peroxodisulphate	7775-27-1	TWA	0.1 mg/m3 (Persulphate)	ACGIH

**Engineering measures** : Minimize workplace exposure concentrations.

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 pro-

tection 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

Material : Nitrile rubber
Break through time : 480 min
Glove thickness : 0.4 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.

according to GB/T 16483 and GB/T 17519



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Wash hands before breaks and immediately after handling the product.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : solid

Colour : white

Odour : not significant

Odour Threshold : No data available

pH : 4.5

Concentration: 10 g/l

Melting point/freezing point : Decomposition: Decomposes below the melting point.

Initial boiling point and boiling

range

Not applicable

Flash point : Not applicable

Evaporation rate : Not applicable

Flammability (solid, gas) : Not expected to form explosive dust-air mixtures.

Upper explosion limit / Upper

flammability limit

No data available

Lower explosion limit / Lower

flammability limit

No data available

Vapour pressure : No data available

Bulk density : 1,250 kg/m3 (20 °C)

Solubility(ies)

Water solubility : 545 g/l soluble (20 °C)

Partition coefficient: n-

octanol/water

Not applicable

Self-Accelerating decomposi-

tion temperature (SADT)

180 °C Method: UN-Test H.4

SADT-Self Accelerating Decomposition Temperature. Lowest temperature at which the tested package size will undergo a

according to GB/T 16483 and GB/T 17519



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self-accelerating decomposition reaction.

Viscosity

Viscosity, dynamic : Not applicable

Viscosity, kinematic : Not applicable

Explosive properties : Not explosive

Oxidizing properties : The substance or mixture is classified as oxidizing with the

category 3.

# 10. STABILITY AND REACTIVITY

Reactivity : Stable under recommended storage conditions.

Chemical stability : Stable under recommended storage conditions.

Possibility of hazardous reac-

tions

Avoid moisture.

Even small amounts of moisture or impurities can noticably reduce the self-accelerating decomposition temperature

(SADT).

Avoid moisture.

Even small amounts of moisture or impurities can noticably reduce the self-accelerating decomposition temperature

(SADT).

Conditions to avoid : Contact with incompatible substances can cause decomposi-

tion at or below SADT.

Even small amounts of moisture or impurities can noticably reduce the self-accelerating decomposition temperature

(SADT).

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**

Harmful if swallowed.

### **Components:**

### **Disodium peroxodisulphate:**

Acute oral toxicity : LD50 (Rat, male): 742 mg/kg

Method: OECD Test Guideline 401

according to GB/T 16483 and GB/T 17519



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Assessment: The component/mixture is moderately toxic after

single ingestion.

Remarks: Based on test data

Acute inhalation toxicity : LC50 (Rat): > 5.1 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Method: OECD Test Guideline 403

Assessment: The substance or mixture has no acute inhala-

tion toxicity

Remarks: Expert judgement

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg

Assessment: The substance or mixture has no acute dermal

toxicity

Remarks: Expert judgement

#### Skin corrosion/irritation

Causes skin irritation.

**Product:** 

Species : Rabbit

Method : OECD Test Guideline 404

Result : Skin irritation

Remarks : May cause skin irritation in susceptible persons.

## **Components:**

### **Disodium peroxodisulphate:**

Species : Rabbit

Method : OECD Test Guideline 404

Result : Skin irritation

# Serious eye damage/eye irritation

Causes serious eye irritation.

**Product:** 

Species : Rabbit

Result : Irritating to eyes.

Method : OECD Test Guideline 405

Remarks : May cause irreversible eye damage.

#### **Components:**

### Disodium peroxodisulphate:

Species : Rabbit

Result : Irritating to eyes.

Method : OECD Test Guideline 405

according to GB/T 16483 and GB/T 17519



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### Respiratory or skin sensitisation

#### Skin sensitisation

May cause an allergic skin reaction.

### Respiratory sensitisation

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

**Product:** 

Remarks : Causes sensitisation.

## **Components:**

# **Disodium peroxodisulphate:**

Exposure routes : Skin contact Species : Guinea pig

Method : OECD Test Guideline 406

Result : May cause sensitisation by skin contact.

: inhalation (dust/mist/fume)

: May cause sensitisation by inhalation.

### Germ cell mutagenicity

Not classified based on available information.

### **Components:**

## Disodium peroxodisulphate:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)

Result: negative

Test Type: DNA damage and repair, unscheduled DNA syn-

thesis in mammalian cells (in vitro)

Result: negative

Genotoxicity in vivo : Species: Mouse

Application Route: Intraperitoneal Method: OECD Test Guideline 474

Result: negative

Test Type: Unscheduled DNA synthesis (UDS) test with

mammalian liver cells in vivo

Species: Rat Result: negative

## Carcinogenicity

Not classified based on available information.

according to GB/T 16483 and GB/T 17519



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### **Components:**

### **Disodium peroxodisulphate:**

Species : Mouse
Application Route : Skin contact
Exposure time : 52 weeks

Method : OECD Test Guideline 451

Result : negative

Remarks : Based on data from similar materials

### Reproductive toxicity

Not classified based on available information.

#### **Components:**

### **Disodium peroxodisulphate:**

Effects on fertility : Species: Rat

Application Route: Ingestion

General Toxicity - Parent: NOAEL: >= 250 mg/kg body weight General Toxicity F1: NOAEL: >= 250 mg/kg body weight

Method: OECD Test Guideline 421

Result: negative

Remarks: Based on data from similar materials

# STOT - single exposure

May cause respiratory irritation.

#### **Components:**

## **Disodium peroxodisulphate:**

Assessment : May cause respiratory irritation.

### STOT - repeated exposure

Not classified based on available information.

## Repeated dose toxicity

### **Components:**

### **Disodium peroxodisulphate:**

Species : Rat

NOAEL : 1,000 mg/kg
LOAEL : 3,000 mg/kg
Application Route : Ingestion
Exposure time : 90 d

Method : OECD Test Guideline 408

### **Aspiration toxicity**

Not classified based on available information.

according to GB/T 16483 and GB/T 17519



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**Further information** 

**Product:** 

Remarks : No data available

**Components:** 

Disodium peroxodisulphate:

Remarks : No data available

#### 12. ECOLOGICAL INFORMATION

### **Ecotoxicity**

#### **Components:**

Disodium peroxodisulphate:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 163 mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 133 mg/l

Exposure time: 48 h

Remarks: Based on data from similar materials

Toxicity to algae/aquatic

plants

: EC50 (Pseudokirchneriella subcapitata (green algae)): 116

mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

NOEC (Pseudokirchneriella subcapitata (green algae)): < 17.1

mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

Toxicity to microorganisms : EC10 (Pseudomonas putida): 36 mg/l

Exposure time: 18 h

Remarks: Based on data from similar materials

Persistence and degradability

No data available

Bioaccumulative potential

**Components:** 

**Disodium peroxodisulphate:** 

Partition coefficient: n-

octanol/water

: Remarks: Not applicable

according to GB/T 16483 and GB/T 17519



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## Mobility in soil

No data available

#### Other adverse effects

**Product:** 

Additional ecological infor- : No data available

mation

### **Components:**

Disodium peroxodisulphate:

Additional ecological infor-

mation

No data available

# 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 chemi-

cal 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.

#### 14. TRANSPORT INFORMATION

# **International Regulations**

**UNRTDG** 

UN number UN 1505

Proper shipping name SODIUM PERSULPHATE

5.1 Class Packing group Ш Labels : 5.1

IATA-DGR

UN/ID No. UN 1505

Proper shipping name Sodium persulphate

Class 5.1 Packing group

Labels Division 5.1 - Oxidizing substances

Packing instruction (cargo

aircraft)

563

according to GB/T 16483 and GB/T 17519



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Packing instruction (passen-559

ger aircraft)

**IMDG-Code** 

UN number UN 1505

SODIUM PERSULPHATE Proper shipping name

Class 5.1 Ш Packing group Labels 5.1 **EmS Code** F-A, S-Q 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 1505

SODIUM PERSULPHATE Proper shipping name

Class 5.1 Packing group Ш 5.1

Labels

#### 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.

#### 15. REGULATORY INFORMATION

# National regulatory information

Law on the Prevention and Control of Occupational Diseases

### **Regulations on Safety Management of Hazardous Chemicals**

Catalogue of Hazardous Chemicals : Listed

Identification of Major Hazard Installations for Hazardous Chemicals (GB 18218) Threshold quantity No. / Code Chemical name / Category

W9.2 Oxidising solids and liquids 200 t

### 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

AICS (AU) On the inventory, or in compliance with the inventory

DSL (CA) All components of this product are on the Canadian DSL

according to GB/T 16483 and GB/T 17519



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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 prod-

uct 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 Agen-

cy, http://echa.europa.eu/

Date format : yyyy/mm/dd

#### Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)

ACGIH / TWA : 8-hour, time-weighted average

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 - 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;

according to GB/T 16483 and GB/T 17519



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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