

# Safety Data Sheet

## 1. IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY/UNDERTAKING

### 1.1 Product Identifier

Trade name	PROPESTGAS
SDS <sup>1</sup> No	016005
CAS <sup>2</sup> No	2699-79-8
Molecular Formula	SO <sub>2</sub> F <sub>2</sub>
Chemical Family	Inorganic acid halide

### 1.2 Relevant identified uses of the substance and uses advised against

Intended use	Fumigant
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### 1.3 Details of the supplier of the safety data sheet

Manufacturer	LINHAI LIMIN CHEMICALS CO. LTD
Admin & Sales Office	XIGUAN AOYONGQUAN TOWN, LINHAI CITY, ZHEJIANG, CHINA
Telephone	+86-576-85683355
e-mail	<a href="mailto:ifan@liminchemical.com">ifan@liminchemical.com</a> , <a href="mailto:lhlm@mail.tzptt.zj.cn">lhlm@mail.tzptt.zj.cn</a>
Web	<a href="http://www.liminchemical.com">www.liminchemical.com</a>
Manufacturer	BARCAN İLAÇLAMA FUMİGASYON TİC. LTD. ŞTİ
Address	Camişerif Mah. 105.Cd. No:16/1 Mersin
Telephone	+90 324 238 93 77
Faks	+90 324 238 25 22
Website	<a href="http://www.barcanfumigasyon.com">www.barcanfumigasyon.com</a>
E-mail	<a href="mailto:rifatgoztas@barcanfumigasyon.com">rifatgoztas@barcanfumigasyon.com</a>

### 1.4 Emergency telephone number

Responsible person	Rıfat Göztaş
Telephone	+90 324 238 93 77
E-mail	<a href="mailto:rifatgoztas@barcanfumigasyon.com">rifatgoztas@barcanfumigasyon.com</a>
Poison Information Center UZEM	114
Emergency First Aid Center	112
fire-fighting	110

## PROPESTGAS

Version: 1.2

Date of issue: 09.01.2016

Revision date: 31.05.2022

According to Regulation (EC) No 2015/830 amending Annex II of Regulation (EC) No 1907/2006 (REACH)

# Safety Data Sheet

It has been prepared in accordance with the provisions of the "Regulation on Safety Data Sheets on Hazardous Substances and Mixtures" dated 29 December 2014 and numbered 29204.

Version: 1.2

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Revision date : 08.04.2022

## 2. Hazards identification

### 2.1 Classification of the substance or mixture

#### Classification according to Regulation (EC) 1272/2008

- Press. Gas, Compressed Gas; H280
- Acute Tox. 3; H331
- STOT SE 1; H370
- STOT RE 2; H373
- Aquatic Acute 1; H400

### 2.2 Label elements:

#### Labelling according to Regulation (EC) 1272/2008

#### Hazard pictograms



Signal word: DANGER

#### Hazard statements

- |      |  |
|------|--|
| H280 | Contains gas under pressure; may explode if heated.  |
| H331 | Toxic if inhaled.  |
| H370 | Causes damage to organs (kidneys) (Inhalation)   |
| H373 | May cause damage to organs (kidneys, nervous system, respiratory system) through prolonged or repeated exposure (Inhalation) |
| H400 | Very toxic to aquatic life.  |

#### Precautionary statements

#### Prevention

- |      |  |
|------|--|
| P102 | Keep out of reach of children.   |
| P260 | Do not breathe dust/fume/gas/mist/vapours/spray.                           |
| P270 | Do not eat, drink or smoke when using this product.                        |
| P273 | Avoid release to the environment.  |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |

#### Response

- |           |  |
|-----------|--|
| P304+P340 | IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. |
| P391      | Collect spillage.  |

#### Storage

- |           |  |
|-----------|--|
| P403+P233 | Store in a well-ventilated place. Keep container tightly closed. |
| P410+P403 | Protect from sunlight. Store in a well-ventilated place.         |
| P405      | Store locked up.   |

#### Disposal

- |      |   |
|------|---|
| P501 | Dispose of contents/container according to the local regulations. |
|------|---|

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<b>EUH statements</b>	
<b>EUH401</b>	To avoid risks to human health and the environment, comply with the instructions for use.
<b>Hazardous component for the label</b>	
Sulphuryl difluoride	
<b>2.3 Other hazards</b>	
The mixture does not fulfill criteria for classification as PBT or vPvB; on the date of creation of this SDS the mixture is not on the Candidate list of SVHC	

## 3. Composition/information on ingredients

### 3.1 Substance

Sulphuryl difluoride

### 3.2 Mixtures

Not Applicable

### 3.3 Ingredients

Substance	% (W/W)	CLASSIFICATION
		CLP
<b>Sulphuryl difluoride</b> CAS <sup>3</sup> : 2699-79-8 EINECS <sup>4</sup> 220-281-5	≥99,8	Press. Gas, Compressed Gas; H280 Acute Tox. 3; H331 STOT SE 1; H370 STOT RE 2; H373 Aquatic Acute 1; H400

NOTE: Impurities that need to be classified or affect the classification of the product: None  
The explanations for all H (Hazard statements) specified in the table are given in Section 16.

### 3.3 Classification System

More detailed information on the level of harmfulness of substances is given in Sections 8, 11, 12 and 16.

## 4. First aid measures

### 4.1 Description of first aid measures

#### 4.1.1 General information:

In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Move the affected personnel away from the contaminated area.

#### 4.1.2 Inhalation:

Remove person to fresh air and keep comfortable for breathing.  
If not breathing, give artificial respiration.  
Get immediate medical advice/attention.

#### 4.1.3 Skin contact:

Thaw frosted parts with lukewarm water. Do not rub affected area.  
Remove contaminated clothing and shoes. In case of skin contact, wearing rubber gloves rub 2.5% calcium gluconate gel continuously into the affected area for 1.5 hours or until further medical care is available.  
Get immediate medical advice/attention.

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<b>4.1.4 Eye contact:</b>	
	Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention. Immediately flush eyes thoroughly with water for at least 15 minutes.
<b>4.1.5 Ingestion:</b>	
	Due to its physical form, exposure to this chemical is not likely. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get immediate medical advice/attention.
<b>4.2 Most important symptoms and effects, both acute and delayed</b>	
	May cause drowsiness or dizziness. The material damages the mucous tissue membranes and upper respiratory tract. Cough, shortness of breath, headache, nausea. Contact with liquid can cause frostbite/frostbite. Direct contact with liquefied gas can cause serious and possibly permanent eye injury.
Inhalation	Toxic if inhaled. Causes damage to organs (kidneys) (Inhalation) May cause damage to organs (kidneys, nervous system, respiratory system) through prolonged or repeated exposure (Inhalation)
Skin Contact	Contact with liquid can cause frostbite.
Eye Contact	Direct contact with liquefied gas can cause serious and possibly permanent eye injury.
Ingestion	Not an expected route of exposure.
	Acute and delayed effects are specified in sections 2. and 11.
<b>4.3 Indication of any immediate medical attention and special treatment needed</b>	
	No data available

## 5. Firefighting measures

<b>5.1 Extinguishing media</b>	
	Alcohol resistant foam. Carbon dioxide. Dry powder. Water spray. Use extinguishing media appropriate for surrounding fire.
<b>5.2 Unsuitable extinguishing media:</b>	
	No data available
<b>5.3 Special hazards arising from the substance or mixture</b>	
	Thermal decomposition generates: Hydrogen fluoride. Sulfur oxides. Contains gas under pressure; may explode if heated. Use water spray or fog for cooling exposed containers.
<b>5.4 Advice for firefighters</b>	
	In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion. Wear gas tight chemically protective clothing in combination with self contained breathing apparatus. For further information refer to section 8: "Exposure controls/personal protection".
<b>5.5 Additional information</b>	
	Do not use too much fire extinguisher and avoid polluting the environment. Firefighting residues should not be allowed to reach the drains and groundwater.

## 6. Accidental release measures

<b>6.1 Personal precautions, protective equipment and emergency procedures</b>	
<b>6.1.1 For non-emergency personnel</b>	

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Observe the exposure limits and work in with the precautions in Section 8.  
Evacuate the dangerous area.  
Make sure that there is good ventilation in the environment, avoid breathing vapors / fumes / particles,  
Avoid contact with eyes.

## 6.1.2 For emergency personnel

Evacuate unnecessary personnel. Ensure adequate air ventilation. May cause suffocation by reducing oxygen available for breathing. Do not breathe gas, fumes, vapor or spray.  
· Only qualified personnel equipped with suitable protective equipment may intervene.  
· Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".  
· Gas/vapor heavier than air. May accumulate in confined spaces, particularly at or below ground level

## 6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so.  
Do not let product enter drains. ·  
Discharge into the environment must be avoided. ·  
Spillages or uncontrolled discharges into watercourses must be alerted to the Environmental Agency or other appropriate regulatory body.

## 6.3 Methods and material for containment and cleaning up

Allow evaporation, monitor concentration up the wind to ensure that no unprotected persons enter or stay in areas with high exposition.

## 6.4 Reference to other sections

Information on safe use is given in section 7.  
Information on personal protective equipment is given in section 8.  
Information on disposal consideration is given in section 13.

# 7. Handling and storage

## 7.1 Precautions for Safe Handling

### 7.1.1 Protective measures

Personal preventions  
Pressurized container: Do not pierce or burn, even after use.  
Close valve after each use and when empty.  
Do not handle until all safety precautions have been read and understood. Ensure good ventilation of the work station. Do not breathe fumes, gas, mist, spray, vapors. Wear personal protective equipment.  
Avoid contact with skin and eyes.  
Securely chain cylinders when in use and protect against physical damage.  
Fire preventions  
Keep away from heat/sparks/open flames/hot surfaces. — No smoking.  
Remove all sources of ignition.  
Take precautionary measures against static discharge.  
Environmental precautions  
Ensure adequate ventilation.  
Avoid release to the environment.  
Do not let product enter drains.  
Discharge into the environment must be avoided.

### 7.1.2 Advice on general occupational hygiene

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

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Wash thoroughly after handling the material.  
Launder contaminated clothing before re-use.  
Remove contaminated clothing and protective equipment before entering eating areas.

## 7.2 Conditions for safe storage, including any incompatibilities

Comply with applicable regulations.  
Protect from sunlight. Do not expose to temperatures exceeding 50 °C.  
Keep container closed when not in use.  
Store in dry, cool, well-ventilated area. Refer to Section 10 on Incompatible Materials.

## 7.3 Advice on common storage

Store in a cool, dry and well-ventilated place.  
Store away from incompatible substances such as moisture, water, acid.  
Observe manufacturer's storing and handling recommendations.  
Keep away from heat/sparks/open flames/hot surfaces.

## 7.4 Specific precautions on storage

Observe the national and local regulations concerning handling and storage.

## 8. Exposure controls/personal protection

### 8.1 Control parameters

**DNEL<sup>5</sup>/DMEL<sup>6</sup> değerleri:** No data available  
Sulphuryl difluoride [CAS#2699-79-8] :  
TWA (8 Saat): 5 ppm (ACGIH/ OSHA PEL)  
20 mg/m<sup>3</sup> (OSHA PEL)  
STEL (15 Dk.):10 ppm (ACGIH)

### 8.2 Exposure controls

Adequate ventilation should be used during processing.  
Wash hands before breaks and at the end of work.  
Avoid contact with the eyes and skin.  
Keep away from heat/sparks/open flames/hot surfaces. – No smoking.  
Avoid breathing dust/fume/gas/mist/vapours/spray.  
Take precautionary measures against static discharge.  
Wear protective gloves/protective clothing/eye protection/face protection.

#### 8.2.1 Appropriate engineering controls:

Make sure that environment is clean and very well ventilated.  
If user operations generate vapors use ventilation to keep exposure to airborne contaminants below the exposure limits given above.  
Use a mechanical fan or vent area to outside.  
Utilize a closed system process where feasible.  
Where this material is not used in a closed system, good enclosure and local exhaust ventilation should be provided to control exposure. See Section 7.

#### 8.2.2 Individual protection measures, such as personal protective equipment

##### 8.2.2.1 Respiratory protection:



Face mask with type B2 filter or equivalent (EN136), e.g. use combined filter A2B2E2K2P3D) (EN 14 387 +A1), self-contained breathing apparatus (EN 133)

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## 8.2.2.2 Eye protection:



Use face shields or goggles that comply with EN166 standards.

## 8.2.2.3 Hand protection:



Use gloves that comply with the EN 374 standard. Thermal hazard protection : Cold insulating gloves

## 8.2.2.4 Skin protection:



Wear chemical resistant protective clothing and rubber boots that comply with the EN 340 standard and the work environment. Do not reuse contaminated clothing without cleaning.

## 8.2.3 Environmental exposure control:

Do not release the product and its packaging to the environment in accordance with the European Union environmental protection legislation.

See Section 7 paragraph for additional information.

## 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Form/Physical state	Compressed gas
Color	Colorless
Odour	Odorless
Odor threshold	No data available
<b>9.2 Other information</b>	
pH	Not applicable
Freezing point/range (°C)	No data available
Boiling point/range (°C) 101,3 kPa	-55,38
Melting point (°C) 101,3 kPa	-135,82
Flammability/Combustibility	No data available
Decomposition temperature (°C)	No data available
Flash Point (°C)	No data available
Ignition temperature (°C)	No data available
Auto ignition temperature (°C)	No data available
Viscosity	No data available
Density @20°C (g/cm <sup>3</sup> )	No data available
Specific gravity (water=1)	1,36
Solubility in water	0,075g/100g
Partition coefficient n-Octanol/Water (log Po/w)	No data available
Upper and lower explosion limit	No data available
Explosive Property	No data available
Oxidation Property	No data available
Vapor pressure (mmHg) @10 °C	9150

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Vapor density (air=1)	3,72
Percent Volatile (% by wt.)	No data available
Saturation In Air (% By Vol.)	No data available
Volatile Organic Content	No data available
Fat solubility	No data available
Conductivity	No data available

## 10. Stability and reactivity

### 10.1 Reactivity

No data available

### 10.2 Chemical stability

The product is stable under recommended storage and handling conditions.  
It may decompose at high temperatures.

### 10.3 Possibility of hazardous reactions

Hazardous polymerization is not observed

### 10.4 Conditions to avoid

Protect from sunlight. Do not expose to temperatures exceeding 50 °C. Keep away from heat, sparks and flame.

### 10.5 Incompatible materials

Strong oxidizing agents

### 10.6 Hazardous decomposition products

Hydrogen fluoride, Sulfur oxides

### 10.7 Hazardous polymerization:

Will not occur.

## 11. Toxicological information

### 11.1 Information on toxicological effects

Under normal conditions of use, primary exposure occurs by inhalation.

#### Acute toxicity

Sulphuryl fluoride [CAS#2699-79-8]:

LD50 oral rat: 100 mg/kg

LC50 inhalation rat (ppm): 991 ppm/4h

#### Corrosivity

##### Skin corrosion/irritation

Contact with liquid can cause frostbite.

##### Serious eye damage/irritation

Direct contact with liquefied gas can cause serious and possibly permanent eye injury.

##### Respiratory or skin sensitisation

The product has no known effects.

##### Germ cell mutagenicity

It is suspected that it is likely to meet the criteria for toxicity.

##### Carcinogenicity

It is suspected to be likely to meet the criteria for category 1A or 1B carcinogenicity.

##### Reproductive toxicity

It is suspected that it is likely to meet the criteria for toxicity

##### (STOT)– single exposure

Causes damage to organs (kidneys) (Inhalation)

##### Specific target organ toxicity

May cause damage to organs (kidneys, nervous system, respiratory



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(STOT)– repeated exposure	system) through prolonged or repeated exposure (Inhalation)
Aspiration hazard	Not classified.

## 12. Ecological information

### 12.1 General Effects on the Environment

Very toxic to aquatic life.

### 12.2 Ecotoxicity

#### 12.2.1 Acute toxicity

LC50, Danio rerio (zebra fish), static test 96 Hour, 0.89 mg/l

Acute toxicity to aquatic invertebrates EC50, Daphnia magna (water flea), static test, 48 Hour. 0.62 mg/l

Acute toxicity to algae/aquatic plants EyC50, Pseudokirchneriella subcapitata (green algae), static test, 96 Hour Growth inhibition (cell density reduction), 3.05 mg/l EbC50, Pseudokirchneriella subcapitata (green algae), static test, 72 Hour Biomass, 0.58 mg/l ErC50, Pseudokirchneriella subcapitata (green algae), static test, 72 Hour Growth rate inhibition, 1.13 mg/l

Toxicity to above ground organisms

LC50, Apis mellifera (bees), 2 hour, mortality, 6.5 mg/l

LC50, Colinus virgianus (bobwhite quail), 4 hour, 1,844 ppm

#### 12.2.2 Chronic Toxicity

Data not available

### 12.3 Persistence and degradability

Decomposition Potential of the products	Data not available
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The half-life of degradation	Data not available
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Potential degradation of product content in the evaluation of wastewater treatment plants	Product has inhibitory effects on the activities of micro-organisms, whether the information is not related, the likely impact on waste water treatment plants is unknown.
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### 12.4 Bioaccumulative potential

Potential of the product to accumulate in the biological environment (biota)	Data not available
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Potential for product to pass through food	Data not available
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Octanol / Water Partition Coefficient, LogPow	or Log Pow<3
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Bioconcentration Factor, BCF	Bioconcentration potential is low BCF<100
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### 12.5 Mobility

Potential for mobility in soil is very high (Koc between 0 and 50).

Partition coefficient (Koc): 6 Estimated

Water threat class	No data available
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Clean water impact	No data available
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Known or predicted environmental distribution	No data available
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Physical State of the Product	Compressed gas
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Stability in Water	Data not available
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Solubility in water	0,075g/100g
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Stability in Soil	In the case of products released into the environment, ground water
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	mixing and / or dissemination of the following information regarding the potential can be evaluated.
<b>12.6 Biodegradability</b>	
Biodegradability:Chemical degradation (hydrolysis) is expected in the environment (Biotic)	
<b>12.7 Results of PBT and vPvB assessment</b>	
Mixture does not fulfill criteria as PBT nor vPvB.	
<b>12.8 Degradability with Other Processes</b>	
Potential of Degradability by Other Processes (such as Oxidation or Hydrolysis) and Half Life of Degradation	Data not available
Photolysis and Half-Life	Data not available
Effect on Wastewater Treatment Plants	Product has inhibitory effects on the activities of micro-organisms, whether the information is not related, the likely impact on waste water treatment plants is unknown.
<b>12.9 Other Adverse Effects</b>	
Ozone Depletion Potential	It does not contain chemicals that have the potential to deplete the ozone layer.
Photochemical Ozone Generating Potential	Data not available
Global Warming (Greenhouse Effect) Potential	Data not available
Other Adverse Effects on the Environment	Very toxic to aquatic life with long lasting effects.
<b>12.10 Additional information</b>	
Do not allow to release into the environment. Do not let product enter drains. Discharge into the environment must be avoided. Spillages or uncontrolled discharges into watercourses must be alerted to the Environmental Agency or other appropriate regulatory body. See sections 6, 7, 13, 14 and 15 for information on measures against accidental release, transport and disposal of waste.	

## 13. Disposal considerations

### 13.1 Waste treatment methods

This product is transported in pressure receptacles, returning to manufacturers properly secured with the remnants of any unused product. Ensure all outlets are secure and replace the protective cap. Products and wastes should not be mixed with sewage, above ground, underground and drinking water, they should be disposed of in accordance with official regulations. Waste product or product impregnated material should be disposed of by incineration in an appropriate licensed facility. Releasing the product and its wastes to the environment can cause soil and water pollution. Do not dispose of the product without checking the relevant waste regulations. Until the containers are cleaned and / or destroyed, follow all the rules stated on the label. Waste classification should be made to be specific to the industry and processes according to EWC. It should not be left to waterways. See section 6.2.

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## 13.2 Legal provisions regarding waste management:

Products and wastes should not be mixed with sewage, above ground, underground and drinking water and should be disposed of in accordance with official regulations.

## 14. Transport information

### 14.1 UN Number (ADR/RID, IMDG, IATA)<sup>7</sup>

UN2191

### 14.2 UN Proper Shipping Name

SULPHURYL FLUORIDE,2 (C/D)

### 14.3 Transport Hazard Class(es)

2.3



### 14.4 Packing Group

-

### 14.5 Environmental Hazards

No data available

### 14.9 Special Precautions For User

Not applicable

### 14.10 Transport In Bulk According to Annex II of Marpol and the IBC Code

No data available

## 15. Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulation (EC) No 2015/830 amending Annex II of Regulation (EC) No 1907/2006 (REACH).  
Regulation (EC) No 1272/2008 on classification, labeling and packaging of substances and mixtures.

### 15.2 Chemical safety assessment

Not executed

### 15.3 Hazard

CLP classification according to Annex VI of CLP (Regulation (EC) No 1272/2008)  
Press. Gas, Compressed Gas; H280  
Acute Tox. 3; H331  
STOT SE 1; H370  
STOT RE 2; H373  
Aquatic Acute 1; H40

## 16. Other information

### 16.1 Reason for revision

Compiling according to Regulation (EC) No 1272/2008

### 16.2 Relevant hazard statements mentioned in section 3

H280 Contains gas under pressure; may explode if heated.

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<b>H331</b>	Toxic if inhaled.
<b>H370</b>	Causes damage to organs (kidneys) (Inhalation)
<b>H373</b>	May cause damage to organs (kidneys, nervous system, respiratory system) through prolonged or repeated exposure (Inhalation)
<b>H400</b>	Very toxic to aquatic life.
<b>EUH401</b>	To avoid risks to human health and the environment, comply with the instructions for use.

## 16.3 Recommendations for the safe use of the substance / preparation

### Abbreviations and acronyms that is used in the safety data sheet

Please look through to the endnotes

Safety Data Sheet prepared by **LINHAI LIMIN CHEMICALS CO.,LTD+**. relevant local / national regulations and the information presented by us in this document prepared with our current experience regarding the use of the product is based on our best available knowledge, experience and beliefs.

The aim is to provide the safest management of the risks related to the physicochemical, health and environmental risks that may arise during the use, processing, storage, transportation and disposal of the product.

This document is not a substitute for assurance on product properties, unless stated otherwise, it is valid only for the specified product and may not be valid if this product is used in combination with other substances or in any other process.

Contact our sales department for our training and advice on using the product.

<sup>2</sup> CAS: Chemical Abstracts Service.

<sup>3</sup> CAS: Chemical Abstracts Service.

<sup>4</sup> EINECS: European Inventory of Existing Commercial Chemical Substances.