

and Labelling of Chemicals (GHS) - Sixth revised edition

Version: 1.0 Creation Date: Aug 20, 2018 Revision Date: Aug 20, 2018

# 1.Identification

# **1.1 GHS Product identifier**

Product name Cyclohexylthiophthalimide

# 1.2 Other means of identification

Product number IND595 Other names santogardpvi

# 1.3 Recommended use of the chemical and restrictions on use

For industry use only. Fillers, Process regulators **Identified uses** Uses advised against no data available

# 1.4 Supplier's details

**Company** Acros PharmaTech Limited

HongKong: Unit 3A-8,12/F,Kaiser Centre,No.18 Centre Street,Sai Ying Pun,HongKong Address Mainland: Suite 920, Changwu Road 888, Changzhou, Jiangsu, China Telephone 86(519)85265509

# 2.Hazard identification

# 2.1 Classification of the substance or mixture

Skin sensitization, Category 1

Hazardous to the aquatic environment, short-term (Acute) - Category Acute 1

Hazardous to the aquatic environment, long-term (Chronic) - Category Chronic 1

# 2.2 GHS label elements, including precautionary statements

Pictogram(s)



Warning

Signal	word
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H317 May cause an allergic skin reaction

Hazard statement(s)

H400 Very toxic to aquatic life

	H410 Very toxic to aquatic life with long lasting effects				
Precautionary statement(s)					
	P261 Avoid breathing dust/fume/gas/mist/vapours/spray.				
Prevention	P272 Contaminated work clothing should not be allowed out of the workplace.				
	P280 Wear protective gloves/protective clothing/eye protection/face protection.				
	P273 Avoid release to the environment.				
Response	P302+P352 IF ON SKIN: Wash with plenty of water/				



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	P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
	P321 Specific treatment (see on this label).
	P362+P364 Take off contaminated clothing and wash it before reuse.
	P391 Collect spillage.
Storage	none
Disposal	P501 Dispose of contents/container to

# 2.3 Other hazards which do not result in classification

none

# 3. Composition/information on ingredients

## 3.1 Substances

**Chemical name** Common names and synonyms CAS number EC number Concentration Cyclohexylthiophthalimide Cyclohexylthiophthalimide 17796-82-6 none ≥95%

# 4.First-aid measures

## 4.1 Description of necessary first-aid measures

#### **General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance.

#### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

#### In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

#### In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

## If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

# 4.2 Most important symptoms/effects, acute and delayed

no data available

## 4.3 Indication of immediate medical attention and special treatment needed, if necessary

Basic treatment: Establish a patent airway. Suction if necessary. Watch for signs of respiratory insufficiency and assist ventilations if needed. Administer oxygen by nonrebreather mask at 10 to 15 L/min. Monitor for pulmonary edema and treat if necessary .... Monitor for shock and treat if necessary .... Anticipate seizures and treat if necessary .... For eye contamination, flush eyes immediately with water. Irrigate each eye continuously with normal saline during transport ... . Do not use emetics. For ingestion, rinse mouth and administer 5 ml/kg up to 200 ml of water for dilution if the patient can swallow, has a strong gag reflex, and does not drool .... Cover skin burns with dry sterile dressings after decontamination .... /Poison A and B/

5.Fire-fighting measures



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# 5.1 Extinguishing media

## Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

# 5.2 Specific hazards arising from the chemical

no data available

# 5.3 Special protective actions for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

# 6.Accidental release measures

## 6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

# 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.

## 6.3 Methods and materials for containment and cleaning up

Pick up and arrange disposal. Sweep up and shovel. Keep in suitable, closed containers for disposal.

## 7.Handling and storage

# 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Avoid exposure - obtain special instructions before use. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

# 7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

# 8. Exposure controls/personal protection

# 8.1 Control parameters

**Occupational Exposure limit values** 

no data available

#### **Biological limit values**

no data available

#### 8.2 Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

#### 8.3 Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection



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Version: 1.0 Creation Date: Aug 20, 2018 Revision Date: Aug 20, 2018

Safety glasses with side-shields conforming to EN166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### Skin protection

Wear impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique(without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

#### **Respiratory protection**

Wear dust mask when handling large quantities.

#### **Thermal hazards**

no data available

# 9. Physical and chemical properties

Physical state	White or light yellow powder crystal			
Colour	Off-white solid			
Odour	no data available			
Melting point/ freezing point	95°C(lit.)			
Boiling point or initial boiling point and boiling range 146°C(lit.)				
Flammability	no data available			
Lower and upper explosion limit / flammability limit	no data available			
Flash point	36°C(lit.)			
Auto-ignition temperature	no data available			
Decomposition temperature	no data available			
рН	no data available			
Kinematic viscosity	no data available			
Solubility	In water, 10.8 mg/L at 20°C; 18 mg/L at 23°C; 22 mg/L at 25°C			
Partition coefficient n-octanol/water (log value)	log Kow = 3.66 at 25°C			
Vapour pressure	0.000308mmHg at 25°C			
Density and/or relative density	1.25~1.35g/cm3			
Relative vapour density	no data available			
Particle characteristics	no data available			

# 10.Stability and reactivity

# **10.1 Reactivity**

no data available

# **10.2 Chemical stability**

Stable under recommended storage conditions.

# **10.3 Possibility of hazardous reactions**

no data available

10.4 Conditions to avoid



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Version: 1.0 Creation Date: Aug 20, 2018 Revision Date: Aug 20, 2018

no data available

## 10.5 Incompatible materials

no data available

## **10.6 Hazardous decomposition products**

When heated to decomposition it emits toxic fumes of /nitrogen oxide and hydrogen chloride/.

# **11.Toxicological information**

#### Acute toxicity

- Oral: LD50 Mouse oral 206 mg/kg
- Inhalation: no data available
- Dermal: no data available

#### Skin corrosion/irritation

no data available

Serious eye damage/irritation

no data available

**Respiratory or skin sensitization** 

no data available

Germ cell mutagenicity

no data available

Carcinogenicity

no data available

**Reproductive toxicity** 

no data available

#### STOT-single exposure

no data available

#### STOT-repeated exposure

no data available

#### **Aspiration hazard**

no data available

# **12.Ecological information**

# **12.1 Toxicity**

• Toxicity to fish: LC50 Lepomis macrochirus (Bluegill sunfish, standard length 3.8 cm) 1.5 mg/L/24 hr; 1.2 mg/L/48 hr, 96 hr; static, temperature 22°C, dissolved oxygen 0.4-8.3 mg/L, pH 6.8-7.3, water hardness (CaCO3) 255 ppm.



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- Toxicity to daphnia and other aquatic invertebrates: EC50 Daphnia magna (immobilization) 32 mg/L/48 hr, 24 hr (95% confidence interval: 22-46 mg/L) /Conditions of bioassay not specified in source examined
- Toxicity to algae: no data available
- Toxicity to microorganisms: no data available

# 12.2 Persistence and degradability

Soil microorganisms were found to not colonize on N-(cyclohexylthio)phthalimide in experiments using soil burial techniques(1). N-(Cyclohexylthio)phthalimide was found to degrade 99%+ after 160 hours in a semi-continuous activated sludge test (primary biodegradation) using adapted sewage(2). Ultimate biodegradation by a shake flask test showed 3.4% of the theoretical CO2 evolution after 32 days(2). N-(Cyclohexylthio)phthalimide was found to inhibit nitrification in wastewater(3).

# 12.3 Bioaccumulative potential

An estimated BCF of 130 was calculated for N-(cyclohexylthio)phthalimide(SRC), using a log Kow of 3.66(4) and a regression-derived equation(2). According to a classification scheme(3), this BCF suggests the potential for bioconcentration in aquatic organisms is high(SRC); however, N-(cyclohexylthio)phthalimide is expected to undergo rapid hydrolysis in aquatic environments(4). A hydrolysis half-life of 23.3 hours at pH 7 and 25°C has been reported for N-(cyclohexylthio)phthalimide(4).

# 12.4 Mobility in soil

The Koc of N-(cyclohexylthio)phthalimide is estimated as 2,300(SRC), using a log Kow of 3.66(1) and a regression-derived equation(2). According to a classification scheme(3), this estimated Koc value suggests that N-(cyclohexylthio)phthalimide is expected to have slight mobility in soil. N-(Cyclohexylthio)phthalimide would be expected to hydrolyze in moist soil; a hydrolysis half-life of 23.3 hours at pH 7 and 25°C has been reported for N-(cyclohexylthio)phthalimide(1).

## 12.5 Other adverse effects

no data available

## 13.Disposal considerations

## 13.1 Disposal methods

#### Product

The material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems.

## Contaminated packaging

Containers can be triply rinsed (or equivalent) and offered for recycling or reconditioning. Alternatively, the packaging can be punctured to make it unusable for other purposes and then be disposed of in a sanitary landfill. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials.

#### 14.Transport information

#### 14.1 UN Number

ADR/RID: UN3080 IMDG: UN3080 IATA: UN3080

# 14.2 UN Proper Shipping Name

ADR/RID: ISOCYANATES, TOXIC, FLAMMABLE, N.O.S. or ISOCYANATE SOLUTION, TOXIC, FLAMMABLE, N.O.S. IMDG: ISOCYANATES, TOXIC, FLAMMABLE, N.O.S. or ISOCYANATE SOLUTION, TOXIC, FLAMMABLE, N.O.S. IATA: ISOCYANATES, TOXIC, FLAMMABLE, N.O.S. or ISOCYANATE SOLUTION, TOXIC, FLAMMABLE, N.O.S.

14.3 Transport hazard class(es)



and Labelling of Chemicals (GHS) - Sixth revised edition

Version: 1.0 Creation Date: Aug 20, 2018 Revision Date: Aug 20, 2018

ADR/RID: 6.1 IMDG: 6.1 IATA: 6.1

## 14.4 Packing group, if applicable

ADR/RID: II IMDG: II IATA: II

## 14.5 Environmental hazards

ADR/RID: yes IMDG: yes IATA: yes

## 14.6 Special precautions for user

no data available

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

no data available

## **15.Regulatory information**

## 15.1 Safety, health and environmental regulations specific for the product in question

Chemical name	Common names and synonyms	CAS number	EC number		
Cyclohexylthiophthalimide	Cyclohexylthiophthalimide	17796-82-6	none		
European Inventory of Existing Commercial Chemical Substances (EINECS)					
EC Inventory			Listed.		
United States Toxic Substances Control Act (TSCA) Inventory					
China Catalog of Hazardous chemicals 2015					
New Zealand Inventory of Chemicals (NZIoC)					
Philippines Inventory of Chemicals and Chemical Substances (PICCS)					
Vietnam National Chemica	I Inventory		Listed.		
Chinese Chemical Inventory of Existing Chemical Substances (China IECSC) Listed.					

## **16.Other information**

#### Abbreviations and acronyms

- CAS: Chemical Abstracts Service
- ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
- RID: Regulation concerning the International Carriage of Dangerous Goods by Rail ٠
- IMDG: International Maritime Dangerous Goods
- IATA: International Air Transportation Association
- TWA: Time Weighted Average
- STEL: Short term exposure limit
- LC50: Lethal Concentration 50% •
- LD50: Lethal Dose 50%
- EC50: Effective Concentration 50% •

#### References

- IPCS The International Chemical Safety Cards (ICSC), website: http://www.ilo.org/dyn/icsc/showcard.home •
- HSDB Hazardous Substances Data Bank, website: https://toxnet.nlm.nih.gov/newtoxnet/hsdb.htm •
- IARC International Agency for Research on Cancer, website: http://www.iarc.fr/ •
- eChemPortal The Global Portal to Information on Chemical Substances by OECD, website: • http://www.echemportal.org/echemportal/index?pageID=0&request\_locale=en
- CAMEO Chemicals, website: http://cameochemicals.noaa.gov/search/simple ٠
- ChemIDplus, website: http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp •



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- ERG Emergency Response Guidebook by U.S. Department of Transportation, website: http://www.phmsa.dot.gov/hazmat/library/erg •
- Germany GESTIS-database on hazard substance, website: http://www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index-2.jsp •
- ECHA European Chemicals Agency, website: https://echa.europa.eu/ ٠

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