

# Safety Data Sheet

According to Globally Harmonized System Of Classification And Labelling Of Chemicals (GHS)

Version: 1.0/EN  
Product name: CTP (PVI)

Revision date: 03/09/2010  
Printing date: 03/09/2010

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1 Product identifier

Trade name: CTP (PVI)  
Substance name: N-(cyclohexylthio)phthalimide  
REACH registration No.: The substance has been pre-registered.  
The transition time according to REACH Regulation, Article 23 is still not expired.  
CAS No.: 17796-82-6  
EC No.: 241-774-1

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

Relevant identified uses: Rubber vulcanization inhibitor.  
Uses advised against: Not available.

### 1.3 Details of the supplier of the SDS

Only representative: REACH COMPLIANCE SERVICES LIMITED  
Address: 306 The Capel Building, Mary's Abbey, Dublin 7, Ireland  
E-mail: Info@reach24h.com

Supplier name (Manufacture): Shandong Yanggu Huatai Chemical Co., Ltd.  
Address: No.217, Qinghexi Road, Yanggu County, Shandong Province, China(The original name of  
Postcode: Qinghexi Road is Nanhuan Road)  
E-mail: 252300  
Telephone: hthg@lc-public.sd.cninfo.net  
Fax: +86-635-6381126  
+86-635-6381030

### 1.4 Emergency telephone number

+86 635 6381031 (In China, only office hours available.)

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008[CLP]

| Hazard classes and Hazard categories | Hazard Statements Codes |
|--------------------------------------|-------------------------|
| Skin Sens. 1                         | H317                    |
| Aquatic Acute 1                      | H400                    |
| Aquatic Chronic 1                    | H410                    |

Classification according to Council Directive 67/548/EEC

Xi; R43  
N; R50/53

#### Additional information

Full text of H-statements: see section 16.

### 2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008[CLP]

#### Product identifier:

Chemical name: N-(cyclohexylthio)phthalimide

#### Hazard pictograms:



GHS07

GHS09

Signal word: Warning.

#### Hazard statement(s):

H317 May cause an allergic skin reaction.

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H410 Very toxic to aquatic life with long lasting effects.

## Precautionary statements:

**Prevention:** P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P273 Avoid release to the environment.

**Response:** P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.  
P363 Wash contaminated clothing before reuse.  
P391 Collect spillage.

**Disposal:** P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

## Supplemental Hazard information (EU):

No information available.

## Special rules for supplemental label elements for certain mixtures:

No information available.

### 2.3 Other hazards

No information available.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substance information

**REACH registration No.:** The substance has been pre-registered.  
The transition time according to REACH Regulation, Article 23 is still not expired.

**CAS No.:** 17796-82-6

**EC No.:** 241-774-1

**Molecular formula:** C<sub>14</sub>H<sub>15</sub>NO<sub>2</sub>S

**Molecular weight:** 261.34

**CAS name:** 1H-Indole-1,3(2H)-dione, 2-(cyclohexylthio)-

**IUPAC name:** 2-(cyclohexylsulfanyl)-1H-indole-1,3(2H)-dione

**Purity:** >95%

## SECTION 4: FIRST AID MEASURES

### 4.1 Description of first aid measures

#### General notes:

In all cases of doubt, or when symptoms persist, seek medical attention.

#### Following inhalation:

Bring victim into fresh air. If symptoms persist, seek medical advice.

#### Following skin contact:

Remove all contaminated clothing immediately. Wash off with plenty of soap and water.

Seek medical advice if irritation develops. Launder clothes before reuse.

#### Following eye contact:

Rinse thoroughly with plenty of water. Eyelids should be held away from the eyeball to ensure thorough rinse.

Seek medical advice if irritation develops.

#### Following ingestion:

Only when conscious, rinse mouth; give plenty of water to drink. DO NOT induce vomiting. Seek medical advice.

#### Notes for the doctor:

No specific recommendations.

### 4.2 Most important symptoms and effects, both acute and delayed

Dust may be irritating to the respiratory tract and cause symptoms of bronchitis.

Repeated contact may cause skin sensitization.

### 4.3 Indication of the immediate medical attention and special treatment needed

Persons with pre-existing skin, eye, or respiratory disease may be at increased risk.

Attending physician should treat exposed patients symptomatically.

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## SECTION 5: FIRE-FIGHTING MEASURES

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### 5.1 Extinguishing media

**Suitable extinguishing media:** Water spray, water mist, foam, dry chemical powder, CO<sub>2</sub>.

**Unsuitable extinguishing media:** No specific recommendations

### 5.2 Special hazards arising from the substance or mixture

Special exposure hazards: Emits toxic fumes under fire conditions.

Hazardous decomposition: carbon monoxide (CO), sulfur oxides (SO<sub>x</sub>), nitrous gases (NO<sub>x</sub>).

### 5.3 Advice for fire-fighters

Fire fighters should wear full protective clothing, including self-contained breathing equipment.

Fight fire from a safe distance and from a protected location. Use water spray to cool fire exposed surfaces.

Do not allow run-off from fire fighting to enter drains or water courses.

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

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### 6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment specified in section 8.

Avoid the generation of dust. Avoid contact with skin, eyes.

Keep unprotected persons away. Ensure adequate ventilation.

Sweep, vacuum, or shovel and place into closable container for disposal.

### 6.2 Environmental precautions

Avoid discharge into the environment.

### 6.3 Methods and material for containment and cleaning up

Collect as much as possible in a clean container for (preferable) reuse or disposal.

### 6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

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## SECTION 7: HANDLING AND STORAGE

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### 7.1 Precautions for safe handling

Prevent skin contact and contamination of clothing. Avoid dust generation. Avoid breathing dust.

Wash thoroughly with soap and water after handling.

Fire and explosion prevention: Dust/air mixtures may ignite violently upon exposure to sparks or sources of ignition.

Dust explosion class (VDI 2263): St3. Kst: 335 bar.m/s. Maximum corrected explosion pressure: 8.4 bar.

Wash contaminated skin promptly with plenty of soap and water.

Launder all contaminated clothing and clean protective equipment before reuse.

### 7.2 Conditions for safe storage, including any incompatibilities

Store closed containers in a cool, dry, well-ventilated area. Avoid exposure to direct sunlight. Do not double stack.

### 7.3 Specific end use(s)

Not available.

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## SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

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### 8.1 Control parameters

**Occupational exposure limit values:**

N- (cyclohexylthio) phthalimide: OSHA PEL/8Hr-TWA = 15 mg/m<sup>3</sup> (Total Dust).

ACGIH TLV/8-Hr TWA = 10 mg/m<sup>3</sup>. PEL/8Hr TWA: 0.5 mg/m<sup>3</sup> (Skin).

United kingdom: OES-TWA: 0.5mg/m<sup>3</sup>

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## 8.2 Exposure controls

### Appropriate engineering controls:

Avoid dust generation. Ensure good ventilation and local exhaustion of the working area.

### Personal protective equipment:

Eye and face protection: Wear safety goggles.  
Skin protection: Wear chemical y resistant gloves and clothing to prevent skin contact.  
Respiratory protection: Avoid breathing dust. In case of insufficient ventilation, wear suitable respiratory equipment.  
Thermal hazards: Not available.  
Other information: Wash thoroughly with soap and water after handling.  
Regular showering can minimize skin odour once it has developed.

### Environmental exposure controls:

Avoid discharge into the environment.

### Consumer exposure controls:

Consumer exposure to CTP is essential y nil.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

|   |   |
|---|---|
| Appearance:                               | Dedusted powder or granular.                      |
| Colour:                                   | White.  |
| Odour:                                    | Unpleasant.                                       |
| pH:                                       | Not determined.                                   |
| Melting point/range:                      | 87°C (initial); 89-94°C (final)                   |
| Boiling point:                            | Not determined.                                   |
| Flash point:                              | 177°C   |
| Evaporation rate :                        | No data available.                                |
| Flammability:                             | Solid substance: not flammable.                   |
| Auto-ignition temperature:                | Approx. 300°C                                     |
| Explosive properties:                     | Dust explosion hazard                             |
| Explosion limits:                         | Lower Explosion Limit (LEL): 30g/m <sup>3</sup> . |
| Minimum ignition energy:                  | < 2 MJ.   |
| Oxidizing properties:                     | Not determined.                                   |
| Vapour pressure:                          | Negligible at room temperatures.                  |
| Density:                                  | 1330 kg/m <sup>3</sup> (25°C)                     |
| Bulk density:                             | 700kg/ m <sup>3</sup> (compacted, 25°C)           |
| Solubility in water:                      | 0.022 kg/m <sup>3</sup> (25°C)                    |
| Solubility in other solvents:             | Soluble in most organic solvents.                 |
| Partition coefficient (n -octanol/water): | Log Pow = 3.66                                    |
| Viscosity:                                | Not applicable.                                   |
| Relative vapour density (air=1):          | Not applicable.                                   |

### 9.2 Other information

No data available.

## SECTION 10: STABILITY AND REACTIVITY

### 10.1 Reactivity

No information available.

### 10.2 Chemical stability

Stable under recommended storage and handling conditions (see section 7).

### 10.3 Possibility of hazardous reactions

No hazardous reactions known.

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## 10.4 Conditions to avoid

Avoid strong heating. Heating > 100°C: May catch fire.

## 10.5 Incompatible materials

No specific recommendations.

## 10.6 Hazardous decomposition products

Thermal decomposition products: carbon monoxide (CO), nitrous gases (NO<sub>x</sub>), sulfur oxides (SO<sub>x</sub>).

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Toxicokinetics, metabolism and distribution

There is no information on toxicokinetics.

### 11.2 Information on toxicological effects

#### Acute toxicity:

Acute Oral toxicity: LD<sub>50</sub> = 2600 mg/kg (rat);

Acute Inhalation toxicity: No data available.

Acute Dermal toxicity: LD<sub>50</sub> > 5010 mg/kg (rat);

#### Skin corrosion/irritation:

Skin, Rabbits: slightly irritating (IUCLID).

#### Serious eye damage/irritation:

Eye, Rabbits: not irritating (IUCLID).

#### Respiratory or skin sensitization:

The substance is considered as a sensitizer.

#### CMR effects (Carcinogenicity, Mutagenicity and Toxicity for Reproduction):

There is no information available on Carcinogenicity, Mutagenicity and Toxicity for Reproduction.

#### STOT-single exposure and repeated exposure:

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

#### Aspiration hazard:

No data available.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1 Toxicity

| Acute toxicity          | Effect dose                      | Species                          | Method               |
|-------------------------|----------------------------------|----------------------------------|----------------------|
| Acute fish toxicity:    | LC <sub>50</sub> = 1.2 mg/l/96h  | <i>Lepomis macrochirus</i>       | IUCLID               |
|                         | LC <sub>50</sub> = 0.41 mg/l/96h | <i>Oncorhynchus mykiss</i>       | IUCLD                |
| Acute daphnia toxicity: | EC <sub>50</sub> = 32 mg/l/48h   | <i>Daphnia magna</i>             | OECD Guide-line 202, |
| Acute Algae toxicity:   | EC <sub>50</sub> = 22 mg/l/96h   | <i>Selenastrum capricornutum</i> | IUCLID               |

### 12.2 Persistence and degradability

CTP is readily biodegradable. Testing in activated sludge showed 99% biodegradation after 190 hours.

### 12.3 Bioaccumulative potential

Log Pow = 3.66,

Bio Concentration Factor (BCF): 130.

Tests indicate this material will not bioaccumulate or persist in the environment.

### 12.4 Mobility in soil

No data available.

### 12.5 Results of PBT and vPvB assessment

No data available.

### 12.6 Other adverse effects

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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## SECTION 13: DISPOSAL CONSIDERATIONS

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### 13.1 Waste treatment methods

Product: Avoid discharge into the environment.  
Small quantities: According to local regulations.  
Large quantities: Consult Shandong Yanggu Huatai Chemical Co., Ltd. for special advice.  
Contaminated packaging: According to local regulations.  
Waste code number: Please refer to your specific industry in the European Waste Catalogue.

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## SECTION 14: TRANSPORT INFORMATION

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### 14.1 Land transport (ADR/RID/GGVSE)

UN-No.: none  
Official transport designation: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
(N-(cyclohexylthio)phthalimide)  
Class: Not restricted  
Classification Code: None  
Packing group: Not restricted  
Hazard label: none

### 14.2 Sea transport (IMDG-Code/GGVSee)

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
(N-(cyclohexylthio)phthalimide)  
Class: not restricted  
UN-No.: none  
Packing group: not restricted

### 14.3 Air transport (ICAO-TI/IATA-DGR)

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
(N-(cyclohexylthio)phthalimide)  
Class: 9  
UN-No.: 3077  
Packing group: III

### 14.4 Additional information

No data available.

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## SECTION 15: REGULATORY INFORMATION

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

#### EU regulation:

Authorisations: No information available.  
Restrictions on use: No information available.  
EINECS: The substance is listed in the inventory.  
DSD (67/548/EEC): The substance is not listed in the Annex I.

#### Other chemical regulation:

USA - TSCA: The substance is listed in the inventory.  
Canada - DSL: The substance is listed in the inventory.  
Australia - AICS: The substance is listed in the inventory.  
Korea - ECL: The substance is listed in the inventory.  
Japan - ENCS: The substance is listed in the inventory.  
China - IECSC: The substance is listed in the inventory.

### 15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance.

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## SECTION 16: OTHER INFORMATION

### 16.1 Revision Information:

Date of the previous revision: Not applicable.  
Date of this revision: 03/09/2010  
Revision summary: New SDS

### 16.2 Abbreviations and acronyms

GHS: Global y Harmonized System of Classification and Labelling of Chemicals.  
CAS: Chemical Abstracts Service (division of the American Chemical Society).  
EINECS: European Inventory of Existing Commercial Chemical Substances.  
IARC: International agency for research on cancer.  
RID: European Rail Transport.  
IMDG: International Maritime Code for Dangerous Goods.  
IATA: International Air Transport Association.  
DSD: Dangerous Substance Directive (67/548/EEC).  
TSCA: Toxic Substances Control Act, The American chemical inventory.  
HMIS: Hazardous Materials Identification System.  
NFPA: National Fire Protection Association.  
DSL: Domestic Substances List, The Canadian chemical inventory.  
AICS: The Australian Inventory of Chemical Substances.  
ECL: Existing Chemicals List, the Korean chemical inventory.  
ENCS: Japanese Existing and New Chemical Substances  
IECSC: Inventory of existing chemical substances in China.

### 16.3 Key literature references and sources for data

IUCLID Dataset.

### 16.4 Relevant H-statements

#### R-phrases (code and full text):

R43 May cause sensitization by skin contact.  
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

#### H-statements (code and full text):

H317 May cause an allergic skin reaction.  
H410 Very toxic to aquatic life with long lasting effects.  
H400 Very toxic to aquatic life.

### 16.5 Training advice

No data available.

### 16.6 Declare to reader

The information in this Safety Data Sheet (SDS) was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable. According to REACH Article 31(5), the SDS shall be supplied in an official language of the Member State(s) where the substance or mixture is placed on the market, unless the recipient Member State(s) concerned provide otherwise. It should also be noted that this SDS is applicable to the countries with English as an official language.

----- End of the SDS -----