1. Identification

Product name: N-(CYCLOHEXYLTHIO) PHTHALIMIDE

Synonyms: -

CAS #: 17796-82-6

Product code: -

Product use: Tyre.

Manufacturer/Supplier:

Supplier(Manufacturer): DONGYING BOCHEN CHEMICAL CTP PVI CO., LTD

Address: DAWANG TOWN, DONGYING CITY, SHANDONG PROVINCE, CHINA

Contact person(E-mail): dybochenhg@126.com

Telephone: +86-546-6891288

Fax: +86-546-7720999

Emergency telephone Number: +86-546-6891288

2. Hazard(s) identification

GHS classification:

Physical hazards: Not classified

Health hazards: Skin sensitization Category 1A

Environmental hazards: Hazardous to the aquatic environment(ACUTE) Category 1
Hazardous to the aquatic environment(CHRONIC) Category 1

GHS label elements

Hazard Pictograms

Signal word: Warning

Hazard statement: May cause an allergic skin reaction. Very toxic to aquatic life with long lasting effects.

Precautionary statement

Prevention: Avoid breathing dust/fume/gas/mist/vapors/spray. Contaminated work clothing must not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves.

Response: If on skin: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse. Collect spillage.
3. Composition / information on ingredients

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS#</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>N-(CYCLOHEXYLTHIO) PHTHALIMIDE</td>
<td>17796-82-6</td>
<td>99%</td>
</tr>
</tbody>
</table>

4. First-aid Measures

First aid procedures

- **Eye contact**: Wash out the eye with plenty of clean water.
- **Skin contact**: Wash skin with warm water and treat with protective cream.
- **Inhalation**: Remove from exposure, take exposed person to fresh air.
- **Ingestion**: Drink 0.5 l lukewarm water, do not induce vomiting.

Notes to physician: Treat symptoms.

5. Fire-fighting measures

Flammable properties: Not available.

Extinguishing media

- **Suitable extinguishing media**: Water foam.
- **Unsuitable extinguishing media**: CO₂.

Firefighting equipment/instructions: Insulating self-contained breathing apparatus, respirator with suitable filter.

Hazardous combustion products: Carbon dioxide, nitrogen dioxide, sulfur oxides, if insufficient air by combustion toxic CO may arise.

6. Accidental release measures

Personal precautions: Prevent the contact of the substance with glowing articles and prevent the initiating of fire or explosion of CTP dust with air. For personal protection see section 8.

Environmental precautions: Prevent the leak of the substance into drainage, water and soil, CTP is water insoluble, heavier than water and sediments as sludge.

Methods for cleaning up: Collection of contaminated dust into a vessel for waste or liquidation in incinerating plant.

7. Handling and storage

Handling: To handle as with flammables, of which the dust with air can be explosive. Electronic installation in spaces of handling with Duslin® P must be in accordance with regulations for explosive environment. Handling with opened fire is forbidden. The empty wrappings from Duslin® P must be rid of substance rests on walls before repairing (cleaning by means of detergents etc.). The empty paper bags to liquidate in incinerating plant of wastes. For precautions see section 2.2.

Storage: CTP is stored in original multi-layer paper bags or big-bags on pallets or in closed tanks with venting trough dust filter under slight overpressure of nitrogen atmosphere. CTP tends to caking; consequence is proportional to the higher temperature, pressure and storage time. Maximum storage temperature is 35°C. Storage life in undamaged original packaging is one year under the observation of storage conditions.
8. Exposure controls / personal protection

Control parameters:

OCCUPATIONAL EXPOSURE LIMITS (OEL)

INGREDIENT DATA:
Not Available

EMERGENCY LIMITS:

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>TEEL-1</th>
<th>TEEL-2</th>
<th>TEEL-3</th>
</tr>
</thead>
<tbody>
<tr>
<td>N-(CYCLOHEXYLTHIO) PHTHALIMIDE</td>
<td>Not Available</td>
<td>Not Available</td>
<td>Not Available</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Original IDLH</th>
<th>Revised IDLH</th>
</tr>
</thead>
<tbody>
<tr>
<td>N-(CYCLOHEXYLTHIO) PHTHALIMIDE</td>
<td>Not Available</td>
<td>Not Available</td>
</tr>
</tbody>
</table>

Exposure controls:

Appropriate engineering controls: Dust mixed with air can be explosive so that prevent of excess dusting, ensure a sufficient ventilation.

Individual protection measures, such as personal protective equipment:

Eye / face protection Use suitable protective goggles.

Skin protection Put on suitable protective clothes. Use suitable protective gloves.

Respiratory protection Keep the lowest possible level of the dust concentration in air, in case of dusting, use a respirator.

General hygiene considerations Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing.

9. Physical and chemical properties

Appearance

Physical state Solid

Form Powder

Color White

Odor Slight

Odor threshold Not available

pH Not available

Vapor pressure Not available

Melting point/Freezing point 91-95°C

Initial boiling point and boiling range 405.65°C

Flash point 150.3-156.5°C

Evaporation rate Not available

Flammability (solid, gas) Non flammable

Explosion limits Not available

Vapor density Not available

Relative density Not available

Solubility (water) 0.0124g/L
Partition coefficient: log Pow= 2.82-3.56
Auto-ignition temperature: Not available
Decomposition temperature: Not available
Specific gravity: Not available
Density: ca. 1.354 g/cm³(20°C)
Flammability limits in air, upper, %by volume: Not available
Flammability limits in air, lower, % by volume: Not available
VOC: Not available
Percent volatile: Not available

Other data:
- Viscosity: Not available
- Explosiveness: Non explosive
- Oxidising properties: No oxidizing properties
- Molecular formula: C14H15NO2S
- Molecular weight: 261.34

10. Stability and reactivity

Chemical stability: It decomposes at temperature around 120°C.

Conditions to avoid: Incompatible materials. Chemically stable and non-volatile substance.

Incompatible materials: It shows non-corrosive effects on metals.

Hazardous decomposition products: Carbon dioxide, nitrogen dioxide, sulfur oxides, if insufficient air by combustion toxic CO may arise.

Possibility of hazardous reactions: No decomposition when used as directed.

11. Toxicological information

Toxicokinetics, metabolism and distribution:

Non-human toxicological data: Not available

Information on toxicological effects:

Acute toxicity:
- LD50(Oral, Rat): >= 2000 mg/kg bw
- LD50(Dermal, Rat): >= 2000 mg/kg bw
- LC50(Inhalation, Rat): Not available

Skin corrosion/Irritation: Not classified.

Serious eye damage/irritation: Not classified

Respiratory or skin sensitization: May cause an allergic skin reaction.

Germ cell mutagenicity: Not classified

Carcinogenicity: Not classified

Reproductive toxicity: Not classified

STOT- single exposure: Not classified

STOT-repeated exposure: Not classified

Aspiration hazard: Not classified

12. Ecological information

Toxicity:
### Acute toxicity

<table>
<thead>
<tr>
<th>Time</th>
<th>Species</th>
<th>Method</th>
<th>Evaluation</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.69mg/l</td>
<td>96h</td>
<td>Fish</td>
<td>OECD 203</td>
<td>N/A</td>
</tr>
<tr>
<td>1.21mg/l</td>
<td>48h</td>
<td>Daphnia</td>
<td>OECD 202</td>
<td>N/A</td>
</tr>
<tr>
<td>&gt;0.093mg/l</td>
<td>72h</td>
<td>Algae</td>
<td>OECD 201</td>
<td>N/A</td>
</tr>
</tbody>
</table>

### Persistence and degradability:
Not ready biodegradable.

### Bioaccumulative potential:
BCF = 59.12 L/Kg.

### Mobility in soil:
Koc = 483.

### Results of PBT&vPvB assessment:
The substance is not PBT / vPvB.

### Other adverse effects:
Very toxic to aquatic life with long lasting effects.

### 13. Disposal considerations

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

**Contaminated packaging**
Since emptied containers may retain product residue, follow label warnings even after container is emptied.

### 14. Transport information

**DOT**

**Basic shipping requirements:**
- **UN number**: UN3077
- **Proper shipping name**: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, solid, n.o.s. (N-(CYCLOHEXYLTHIO) PHTHALIMIDE)
- **Hazard class**: 9
- **Packing group**: III
- **Environmental hazards**: Yes

**IATA**

- **UN number**: UN3077
- **UN proper shipping name**: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, solid, n.o.s. (N-(CYCLOHEXYLTHIO) PHTHALIMIDE)
- **Transport hazard class(es)**: 9
- **Packing group**: III
- **Environmental hazards**: Yes

**IMDG**

- **UN number**: UN3077
- **UN proper shipping name**: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, solid, n.o.s. (N-(CYCLOHEXYLTHIO) PHTHALIMIDE)
- **Transport hazard class(es)**: 9
- **Packing group**: III
- **Environmental hazards**: Yes

### 15. Regulatory information

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

**N-(CYCLOHEXYLTHIO) PHTHALIMIDE** (17796-82-6) is found on the following "US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory" List.
16. Other information, including date of preparation or last revision

HMIS® ratings
- Health: 2
- Flammability: 1
- Physical hazard: 0

NFPA ratings
- Health: 2
- Flammability: 1
- Instability: 0

Disclaimer
The information in the sheet was written based on the best knowledge and experience currently available.

Issue date
05-20-2015