SAFETY DATA SHEET

PowerSorb[™] 312

Version 6.1H

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SECTION 1: Identification of the substance/mixture and of the company

| Product Identifier | |
|--------------------------------------|--|
| Product Name: | PowerSorb™ 312 |
| Chemical Name: | N-(2-Ethoxyphenyl)-N'-(2-ethylphenyl)oxamide |
| CAS-No.: | 23949-66-8 |
| Relevant identified uses of the su | bstance or mixture and uses advised against |
| Relevant applications identified | For industrial use |
| Details of the supplier of the safet | ty data sheet |
| Company | Tintoll Performance Materials Co.,Ltd. |
| | A-703, No. 50 Jialingjiang East St, Nanjing, China |
| | Email: SDS@ Tintoll.com |
| Emergency Telephone Number: | +86-25-8468-0091 |

SECTION 2: Hazardous identification

Classification of the substance or mixture

According to Regulation (EC) No 1272/2008 (CLP) STOT RE (Lymph nodes) 1 Aquatic Chronic 1 According to Directive 67/548/EEC or 1999/45/EC Possible Hazards: Toxic: danger of serious damage to health by prolonged exposure if swallowed. May cause long-term adverse effects in the aquatic environment. The product is under certain conditions capable of dust explosion. For the classifications not written out in full in this section the full text can be found in section 16.

Label elements

Globally Harmonized System, EU (GHS) Pictogram:



Signal word: Danger Hazard Statement:



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|--|--|---|
| H 372 | Causes damage to organs (Lym repeated exposure. | ph nodes) through prolonged or |
| H410 | Very toxic to aquatic life with lor | ng lasting effects |
| Precautionary St | atements (Prevention): | |
| P273 | Avoid release to the environme | ent. |
| P260 | Do not breathe dust/gas/mist/va | apours. |
| P270 | Do not eat, drink or smoke whe | en using this product. |
| P264 | Wash with plenty of water and | soap thoroughly after handling. |
| Precautionary St | atements (Response): | |
| P311 | Call a POISON CENTER or do | ctor/physician. |
| P391 | Collect spillage | |
| Precautionary St | atements (Disposal): | |
| | | |
| | gulation (EC) No 1272/2008 (CLP) | to hazardous or special waste collection point. 1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL) |
| According to Reg Hazard determini [[3,5-BIS(1,1-DI According to Dire Directive 1999/45 | gulation (EC) No 1272/2008 (CLP) ing component(s) for labelling: BIS(IMETHYLETHYL)-4-HYDROXYPHE ective 67/548/EEC or 1999/45/EC 5/EC ('Preparation Directive') | |
| According to Reg Hazard determini [[3,5-BIS(1,1-DI According to Dire | gulation (EC) No 1272/2008 (CLP) ing component(s) for labelling: BIS(IMETHYLETHYL)-4-HYDROXYPHE ective 67/548/EEC or 1999/45/EC 5/EC ('Preparation Directive') | 1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL) |
| According to Reg Hazard determining [[3,5-BIS(1,1-DI According to Dire Directive 1999/45 Hazard symbol(s | gulation (EC) No 1272/2008 (CLP) ing component(s) for labelling: BIS(IMETHYLETHYL)-4-HYDROXYPHE ective 67/548/EEC or 1999/45/EC 5/EC ('Preparation Directive') | 1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL) |
| According to Reg Hazard determining [[3,5-BIS(1,1-DI According to Dire Directive 1999/45 Hazard symbol(s | gulation (EC) No 1272/2008 (CLP) ing component(s) for labelling: BIS(IMETHYLETHYL)-4-HYDROXYPHE ective 67/548/EEC or 1999/45/EC 5/EC ('Preparation Directive') | 1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL) |
| According to Reg Hazard determining [[3,5-BIS(1,1-DI According to Dire Directive 1999/48 Hazard symbol(s T | gulation (EC) No 1272/2008 (CLP) ing component(s) for labelling: BIS(IMETHYLETHYL)-4-HYDROXYPHE ective 67/548/EEC or 1999/45/EC 5/EC ('Preparation Directive') s) Toxic | 1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL) |
| According to Reg Hazard determini [[3,5-BIS(1,1-DI According to Dire Directive 1999/45 Hazard symbol(s T | gulation (EC) No 1272/2008 (CLP) ing component(s) for labelling: BIS(IMETHYLETHYL)-4-HYDROXYPHE ective 67/548/EEC or 1999/45/EC 5/EC ('Preparation Directive') s) Toxic Toxic | 1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL) ENYLJMETHYLJBUTYLMALONATE |
| According to Reg Hazard determining [[3,5-BIS(1,1-DI According to Direc Directive 1999/48 Hazard symbol(s T R-phrase(s) R48/25 | gulation (EC) No 1272/2008 (CLP) ing component(s) for labelling: BIS(IMETHYLETHYL)-4-HYDROXYPHE ective 67/548/EEC or 1999/45/EC 5/EC ('Preparation Directive') s) Toxic Toxic | 1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL) ENYLJMETHYLJBUTYLMALONATE |
| According to Reg Hazard determini [[3,5-BIS(1,1-DI According to Dire Directive 1999/45 Hazard symbol(s T R-phrase(s) R48/25 R53 | gulation (EC) No 1272/2008 (CLP) ing component(s) for labelling: BIS(IMETHYLETHYL)-4-HYDROXYPHE ective 67/548/EEC or 1999/45/EC 5/EC ('Preparation Directive') 5) Toxic Toxic Toxic: danger of serious dam May cause long-term adverse | 1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL) ENYLJMETHYLJBUTYLMALONATE |
| According to Reg Hazard determining [[3,5-BIS(1,1-DI According to Dire Directive 1999/48 Hazard symbol(s T R-phrase(s) R48/25 R53 S-phrase(s) | gulation (EC) No 1272/2008 (CLP) ing component(s) for labelling: BIS(IMETHYLETHYL)-4-HYDROXYPHE ective 67/548/EEC or 1999/45/EC 5/EC ('Preparation Directive') s) Toxic Toxic Toxic: danger of serious dam May cause long-term adverse Wear suitable protective cloth | 1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL) ENYLJMETHYLJBUTYLMALONATE age to health by prolonged exposure if swallowed. e effects in the aquatic environment. |
| According to Reg Hazard determini [[3,5-BIS(1,1-DI According to Dire Directive 1999/45 Hazard symbol(s T R-phrase(s) R48/25 R53 S-phrase(s) S36/37/39 | gulation (EC) No 1272/2008 (CLP) ing component(s) for labelling: BIS(IMETHYLETHYL)-4-HYDROXYPHE ective 67/548/EEC or 1999/45/EC 5/EC ('Preparation Directive') s) Toxic Toxic Toxic: danger of serious dam May cause long-term adverse Wear suitable protective cloth | 1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL) ENYLJMETHYLJBUTYLMALONATE age to health by prolonged exposure if swallowed. e effects in the aquatic environment. hing, gloves and eye/face protection. eel unwell, seek medical advice |

Hazard determining components) for labelling: BIS(1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL) [[3,5-BIS(1,1-DIMETHYLETHYL)-4-HYDROXYPHENYL]METHYL]BUTYLMALONATE



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Other hazards

According to Regulation (EC) No 1272/2008 (CLP) The product is under certain conditions capable of dust explosion.

SECTION 3: Composition/information on ingredients

Substances Not applicable Mixtures Chemical nature Additive for plastic material stabilization Hazardous ingredients(GHS) According to Regulation (EC) No. 1272/2008 N-(2-Ethoxyphenyl)-N'-(2-ethylphenyl)oxamide Content (W/W):>=50%<75% Aquatic Chronic 4 CAS Number: 23949-66-8 H413 EC- Number: 245-950-9

Bis(1,2,2,6,6-pentamethyl-4-piperidyl) [[3,5-bis(1,1-dimethylethyl)-4-

hydroxyphenyl]methyl]butylmalonate

| Content (W/W):>=20%<25% | Acute Tox. 4 (oral) |
|--------------------------------|-------------------------|
| CAS Number: 63843-89-0 | STOT RE (Lymph nodes) 1 |
| EC-Number: 264-513-3 | Aquatic Chronic 1 |
| REACH registration number: 01- | M-factor chronic: 10 |
| 2119978231-37 | H302. H372. H410 |

Hazardous ingredients

According to Directive 1999/45/EC N-(2-Ethoxyphenyl)-N'-(2-ethylphenyl)oxamide Content (W/W):>=50%<75% CAS Number: 23949-66-8 EC-Number: 245-950-9 R-ohrase(sl: 53

Bis(1,2,2,6,6-pentamethyl-4-piperidyl) [[3,5-bis(1,1-dimethylethyl)-4hydroxyphenyl]methyl]butylmalonate Content (W/W):>=20%<25% CAS Number: 63843-89-0 EC-Number: 264-513-3



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REACH registration number: 01-2119978231-37 Hazard symbol(s): T R-phrase(s): 22, 48/25, 52/53

For the classifications not written out in full in this section, including the indication of danger, the hazard symbols, the R phrases, and the hazard statements, the full text is listed in section 16.

SECTION 4: First aid measures

Description of first aid measures

Remove contaminated clothing If inhaled: If difficulties occur after dust has been inhaled, remove to fresh air and seek medical attention.

On skin contact: Wash thoroughly with soap and water.

On contact with eyes: Wash affected eyes for at least 15 minutes under running water with eyelids held open.

On ingestion: Rinse mouth immediately and then drink plenty of water, induce vomiting, seek medical attention.

Most important symptoms and effects, both acute and delayed

Symptoms: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

Further important symptoms and effects are so far not known.

Indication of any immediate medical attention and special treatment needed

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

SECTION 5: Firefighting measures

Extinguishing media Suitable extinguishing media Dry powder, foam

Unsuitable extinguishing media for safety reasons:



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Carbon dioxide

Additional information:

Avoid whirling up the material/product because of the danger of dust explosion.

Special hazards arising from the substance or mixture

Harmful vapours Evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire.

Advice for fire-fighters

Special protective equipment: Wear a self-contained breathing apparatus.

Further information:

The degree of risk is governed by the burning substance and the fire conditions. Contaminated extinguishing water must be disposed of in accordance with official regulations.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Use personal protective clothing.

Environmental precautions

Contain contaminated waters/groundwater. Do not discharge into drains/surface water/firefighting water.

Methods and material for containment and cleaning up

For small amounts: Pick up with suitable appliance and dispose of. For large amounts: Contain with dust binding material and dispose of. Avoid raising dust.

Reference to other sections

Information regarding exposure controls/personal protection and disposal considerations can be found in section 8 and 13.

SECTION 7: Handling and storage

Precautions for safe handling

Breathing must be protected when large quantities are decanted without local exhaust ventilation.



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Protection against fire and explosion:

Avoid dust formation. Take precautionary measures against static discharges.

Conditions for safe storage, including any incompatibilities

Further information on storage conditions: Keep container tightly closed and dry; store in a cool place.

Storage stability: Storage temperature:<50 ^oC

The packed product is not damaged by low temperatures or by frost. Protect from temperatures above: 50 0C Changes in the properties of the product may occur if substance/product is stored above indicated temperature for extended periods of time.

Specific end use(s)

For the relevant identified use(s) listed in Section 1 the advice mentioned in this section 7 is to be observed.

SECTION 8: Exposure Controls/Personal Protection

Control parameters

Components with occupational exposure limits No occupational exposure limits known.

Exposure controls

Personal protective equipment

Respiratory protection:

Suitable respiratory protection for lower concentrations or short-term effect: Particle filter with high efficiency for solid and liquid particles (e.g. EN 143 or 149, Type P3 or FFP3).

Hand protection:

Chemical resistant protective gloves (EN 374)

Suitable materials also with prolonged, direct contact (Recommended: Protective index 6,

corresponding>480 minutes of permeation time according to EN 374):

E.g. nitrite rubber (0.4 mm), chloroprene rubber (0.5 mm), polyvinylchloride (0.7 mm) and other. Supplementary note: The specifications are based on tests, literature data and information of glove manufacturers or are derived from similar substances by analogy. Due to many conditions (e.g. temperature) it must be considered, that the practical usage of a chemical-protective glove in practice may



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be much shorter than the permeation time determined through testing. Manufacturer's directions for use should be observed because of great diversity of types.

Eye protection: Safety glasses with side-shields (frame goggles) (e.g. EN 166)

Body protection: Body protection must be chosen based on level of activity and exposure.

General safety and hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wearing of closed work clothing is recommended. Handle in accordance with good industrial hygiene and safety practice.

SECTION 9: Physical and Chemical Properties

| Information on basic physical and | chemical pro | perties |
|---|--|--|
| Form: | powder | |
| Color: | light yellow | |
| Odour: | odourless | |
| Odour Threshold | No applicable information available | |
| pH value: | insoluble | |
| Melting point | 56-59 ⁰ C | |
| | The product | has not been tested. |
| | The statemer | nts are based on the properties of the individual |
| | components. | |
| Boiling point: | not applicable | |
| Sublimation point: | not applicable | e |
| Flash point: | not applicable, the product is a solid | |
| Flammability: | not flammable | |
| Lower explosion limit: | not applicable | |
| Upper explosion limit: | | not applicable |
| Ignition temperature: | | no data available |
| Vapour pressure: | | The product has not been tested. |
| Solubility in water: | | insoluble |
| Solubility (qualitative) solvent(s): | | organic solvents soluble |
| Partitioning coefficient n-octanol / wa | ter (log Kow): | Study scientifically not justified. |
| Self ignition: | | not self-igniting |
| Thermal decomposition: | | No decomposition if correctly stored and handled. |



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| | | | |
| Viscosity, dynamic: | | not de | etermined |
| Explosion hazard: | | not ex | plosive |
| Fire promoting properties: | | not fir | e-propagating |
| | | | |
| Other information | | | |
| Self heating ability: | | It is no | ot a substance capable of |
| | | sponta | aneous heating. |
| Minimum ignition energy: | | No da | ta available. |
| Radioactivity: | | Not ra | dioactive for transport |
| | | purpo | ses |
| Bulk density: | | appro | x. 400 kg/m3 |
| Hygroscopy: | | Non-h | ygroscopic |
| | | | |

Other Information:

If necessary, information on other physical and chemical parameters is indicated in this section.

SECTION 10: Stability And Reactivity

| No hazardous reactions if stored and | d handled as prescribed/indicated. |
|--------------------------------------|------------------------------------|
| Corrosion to metals: | No corrosive effect on meta |
| Reaction with: | water |
| Water/air: | |
| Flammable gases: | no |
| Toxic gases: | no |
| Corrosive gases: | no |
| Smoke or fog: | no |
| Peroxides: | no |
| Reaction with: | air |
| Flammable gases: | no |
| Toxic gases: | no |
| Corrosive gases: | no |
| Smoke or fog: | no |
| Peroxides: | no |

Chemical stability

The product is stable if stored and handled as prescribed/indicated. Peroxides: 0%

The product does not contain peroxides.





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Possibility of hazardous reactions

The product may contain explosive fine dust or such dust may be produced by abrasion during transport or product transfer.

Conditions to avoid

Avoid dust formation. Avoid deposition of dust. Avoid all sources of ignition: heat, sparks, open flame. Avoid electro-static charge.

Incompatible materials

Substances to avoid: Strong acids, strong bases, strong oxidizing agents

Hazardous decomposition products

Hazardous decomposition products: No hazardous decomposition products if stored and handled as prescribed/indicated.

SECTION 11: Toxicological Information

Information on toxicological effects

Acute toxicity

Experimental/calculated data: LD50 rat (oral) : >2,000 mg/kg (By inhalation): not determined LD50 rat (dermal) : >2,000 mg/kg

Irritation

Experimental/calculated data: Skin corrosion/irritation rabbit: non-irritant Serious eye damage/irritation rabbit: non-irritant

Respiratory/Skin sensitization

Experimental/calculated data: Other guinea pig: Non-sensitizing.

Germ cell mutagenicity

Assessment of mutagenicity: Based on the ingredients, there is no suspicion of a mutagenic effect.



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Carcinogenicity

Assessment of carcinogenicity:

Based on the ingredients there is no suspicion of a carcinogenic effect in humans.

Reproductive toxicity

Assessment of reproduction toxicity:

Based on the ingredients, there is no suspicion of a toxic effect on reproduction.

Repeated dose toxicity and Specific target organ toxicity (repeated exposure)

Assessment of repeated dose toxicity:

Toxic: danger of serious damage to health by prolonged exposure if swallowed.

Information on: Bis(1,2,2,6,6-pentamethyl-4-piperidyl) [[3,5-bis(1,1-dimethylethyl)-4-

hydroxyphenyl]methyl]butylmalonate

Assessment of repeated dose toxicity:

Repeated exposure may cause effects on the liver, lymph nodes, spleen and blood.

Aspiration hazard

No aspiration hazard expected.

Other relevant toxicity information

The product has not been tested. The statements on toxicology have been derived from the properties of the individual components.

SECTION 12: Ecological Effects

Toxicity

Assessment of aquatic toxicity:

Very toxic to aquatic organisms based on long-term (chronic) toxicity study data. The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

Persistence and degradability

Assessment biodegradation and elimination (H20):

The product is virtually insoluble in water and can thus be separated from water mechanically in suitable effluent treatment plants.

Elimination information: Not readily biodegradable (by DECD criteria).



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Bioaccumulative potential

Bioaccumulation potential:

Accumulation in organisms is not to be expected. The product has not been tested. The statement has been derived from the properties of the individual components.

Mobility in soil

Assessment transport between environmental compartments: The substance will not evaporate into the atmosphere from the water surface.

Results of PBT and vPvB assessment

According to Annex XIII of Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria.

Other adverse effects

The product does not contain substances that are listed in Annex I of Regulation (EC) 2037/2000 on substances that deplete the ozone layer.

Additional information

Other ecotoxicological advice:

Do not discharge product into the environment without control. The product has not been tested. The statements on ecotoxicology have been derived from the properties of the individual components.

SECTION 13:Disposal considerations

Waste treatment methods

Must be disposed of or incinerated in accordance with local regulations.

Contaminated packaging: Uncontaminated packaging can be re-used. Packs that cannot be cleaned should be disposed of in the same manner as the contents.

SECTION 14: Transport Information

Land transport ADR



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| | | |
| UN number | UN3077 | |
| UN proper shipping name: | | LLY HAZARDOUS SUBSTANCE, SOLID, N.O.S |
| | | CALLY HINDERED AMINE) |
| Transport hazard class(es): | | |
| Packing group: | III | |
| Environmental hazards: | yes | |
| Special precautions for uers | s: Tunnel code: E | |
| RID | | |
| UN number | UN3077 | |
| UN proper shipping name: | ENVIRONMENTA | LLY HAZARDOUS SUBSTANCE, SOLID, N.O.S |
| | (Contains STERIC | CALLY HINDERED AMINE) |
| Transport hazard class(es): | 9, EHSM | |
| Packing group: | Ш | |
| Environmental hazards: | yes | |
| Special precautions for use | r: None known | |
| Inland waterway transpor | t | |
| ADN | - | |
| UN number | UN3077 | |
| UN proper shipping name: | | LLY HAZARDOUS SUBSTANCE, SOLID, N.O.S |
| | | CALLY HINDERED AMINE) |
| Transport hazard class(es): | | , |
| Packing group: | III | |
| Environmental hazards: | yes | |
| Special precautions for use | , | |
| Transport in inland waterwa | | d |
| Sea transport | | |
| IMDG | | |
| UN number | UN3077 | |
| UN proper shipping name: | | NTALLY HAZARDOUS SUBSTANCE, SOLID, N.O. |
| | | ERICALLY HINDERED AMINE) |
| Transport hazard class(es): | · | , |
| Booking group: | | |

Packing group: Environmental hazards: Special precautions for user: III yes None known

Air transport



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| | | |
| IATA/ICAO | | |
| UN number | UN3077 | |
| UN proper shipping name: | ENVIRONMENTALL | Y HAZARDOUS SUBSTANCE, SOLID, N.O.S |
| | (Contains STERICA | LLY HINDERED AMINE) |
| Transport hazard class(es): | 9, EHSM | |
| Packing group: | III | |
| Environmental hazards: | yes | |
| Special precautions for use | r: None known | |

UN number

See corresponding entries for "UN number" for the respective regulations in the tables above.

UN proper shipping name

See corresponding entries for "UN proper shipping name" for the respective regulations in the tables above.

Transport hazard class(es)

See corresponding entries for "Transport hazard class(es)" for the respective regulations in the tables above.

Packing group

See corresponding entries for "Packing group" for the respective regulations in the tables above.

Environmental hazards

See corresponding entries for "Environmental hazards" for the respective regulations in the tables above.

Special precautions for user

See corresponding entries for "Special precautions for user" for the respective regulations in the tables above.

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

| Regulation: | Not evaluated |
|---------------------|---------------|
| Shipment approved: | Not evaluated |
| Pollution name: | Not evaluated |
| Pollution category: | Not evaluated |
| Ship Type: | Not evaluated |

SECTION 15:Regulatory Information



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This safety datasheet complies with the requirements of Regulation (EC) No. 1272/2008.

Safety, health and environmental regulations/legislation specific for the substance or mixture no data available

Chemical Safety Assessment

no data available

SECTION 16:Other Information

Any other precaution

The information herein is made based on references, information and data available at present. It maybe revised when new information is available. The descriptions herein are for normal handling. For special application, make safety provisions suitable to them prior to use.

STOT RE (Lymph nodes) 1

Aquatic Chronic 1

Full text of the classifications, including the indication of danger, the hazard symbols, the R phrases, and the hazard statements, if mentioned in section 2 or 3:

| т | Toxic |
|-----------------|--|
| 53 | May cause long-term adverse effects in the aquatic environment. |
| 22 | Harmful if swallowed. |
| 48/25 | Toxic: danger of serious damage to health by prolonged exposure if |
| | swal lowed. |
| 52/53 | Harmful to aquatic organisms, may cause long-term adverse effects in |
| | the aquatic environment. |
| STOT RE | Specific target organ toxicity — repeated exposure |
| Aquatic Chronic | Hazardous to the aquatic environment $-$ chronic |
| Acute Tox. | Acute toxicity |
| H413 | May cause long lasting harmful effects to aquatic life. |
| H302 | Harmful if swallowed. |
| H372 | Causes damage to organs (Lymph nodes) through prolonged or |
| | repeated exposure. |
| H410 | Very toxic to aquatic life with long lasting effects |

