

# SDS

In compliance with HCS/HazCom 2012



## SAFETY DATA SHEET

Product: 1-NG120

Revision: 00

Date: 9/08/2021

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### 1 - IDENTIFICATION

|   |   |
|---|---|
| Product identifier                                      | 1-NG120   |
| Other name  | 3K02-ETED-GWHF-2P8P                                     |
| Recommended use of the chemical and restrictions on use | Adhesive  |
| Company   | Hottinger Brüel & Kjaer                                 |
| Address   | 19 Bartlett st. Marlborough, MA 01590                   |
| Telephone number  | +1.508.804.3268   |
| Emergency telephone number                              | Chemtrec: 1-800-424-9300. International: 1-703-527-3887 |
| E-mail  | support@hbm.com   |

### 2 - HAZARDS IDENTIFICATION

|                                |   |
|--------------------------------|---|
| Classification of the chemical | Flammable liquids – Category 2<br>Serious eye damage/eye irritation – Category 2A<br>Specific target organ toxicity – Single exposure – Category 3<br>Reproductive toxicity – Category 2<br>Hazardous to the aquatic environment – short time Acute – Category 3<br>Hazardous to the aquatic environment – long-term Chronic – Category 3 |
| Signal word                    | DANGER  |
| Hazard statement(s)            | H225 Highly flammable liquid and vapour.<br>H319 Causes serious eye irritation.<br>H336 May cause drowsiness or dizziness.<br>H361 Suspected of damaging fertility or the unborn child.<br>H402 Harmful to aquatic life.<br>H412 Harmful to aquatic life with long lasting effects.   |

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Symbol(s)



### PREVENTION

P210 Keep away from heat, hot surfaces, sparks, open flames, and other sources. No smoking.

P233 Keep container tightly closed.

P240 Ground and bond container and receiving equipment.

P241 Use explosions-proof electrical, ventilating, lighting equipment.

P242 Use non-sparking tools.

P243 Take action to prevent static discharges.

P264 Wash hands thoroughly after handling.

P280 Wear protective gloves, protective clothing, eye protection, face protection, hearing protection.

### RESPONSE

P318 IF exposed or concerned, get medical advice.

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P370 + P378 In case of fire: Use water jet or fog, chemical powder, carbon dioxide (CO<sub>2</sub>) to extinguish.

### STORAGE

P403 + P233 Store in well-ventilated place. Keep container tightly closed.

Precautionary statement(s)

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### DISPOSAL

P501 Dispose of contents and container in accordance with current regulations.

Classification system adopted

Hazard Communication Standard (HCS) 29 CFR: 1910.1200 - Appendix A.

Adoption of the Globally Harmonized System of Classification and Labeling of Chemicals (GHS), United Nations, 8 ed.

Other hazards which do not result in classification

The product has no other hazards.

### 3 – COMPOSITION / INFORMATION ON INGREDIENTS

#### MIXTURE

Impurities and stabilizing additives contributing to the hazard (%m):

| Components                       | Concentration % | Number CAS | GHS classification*          |
|----------------------------------|-----------------|------------|------------------------------|
| Acetone; propan-2-one; propanone | ≥ 60- ≤ 90%     | 67-64-1    | H225; H319; H336             |
| Salicylic acid                   | 1 - <5 %        | 69-72-7    | H302; H318; H361; H402       |
| Zinc oxide                       | 1 - < 5 %       | 1314-13-2  | H320; H400; H410             |
| 4-tert-butylphenol               | < 0,5 %         | 98-54-4    | H315; H318; H361; H401; H410 |

\* Hazard statements are described in section 16.

### 4 - FIRST-AID MEASURES

Inhalation

Remove victim to fresh air and keep at rest in a comfortable position for breathing. Monitor respiratory function. If you feel unwell, contact a POISON CENTER or doctor. Take this SDS.

Skin contact

Wash exposed skin with enough soap and water to remove the material, if necessary, take a shower. Contact a POISON

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| Eye contact  | <p>CENTER or doctor immediately. Take this SDS.<br/>Rinse with plenty of water, keeping the eyelids open to eliminate all the product. If using contact lenses, remove them if it is easy. Continue rinsing. If necessary, contact a POISON CENTER or a doctor. Take this SDS.</p>   |
| Ingestion  | <p>Do not induce vomiting. Do not give anything by mouth to an unconscious person. Rinse victim's mouth with plenty of water. If vomiting occurs, tilt the patient forward or place the patient on the left side (if possible upwards) to keep the airway open and prevent aspiration. Keep the patient silent and maintain normal body temperature. Consult a POISON CENTER or doctor. Take this SDS.</p> |
| Most important symptoms and effects, acute and delayed                     | <p>The product may cause eye irritation with watering, redness and burning. Inhalation of the product can cause narcotic effects with drowsiness and dizziness. Suspected of damaging fertility or the unborn child.</p>   |
| Indication of any immediate medical attention and special treatment needed | <p>Avoid contact with the product when helping the victim. Exposure treatment should be directed towards the control of the patient's symptoms and clinical condition. In case of contact with the skin, do not rub the affected area.</p>   |

### 5 - FIRE-FIGHTING MEASURES

|  |   |
|--|---|
| Extinguishing media                                | <p>Suitable: Compatible with water jet or fog, foam, chemical powder, carbon dioxide (CO<sub>2</sub>).</p> <p>Not suitable: Direct water jets.</p>  |
| Specific hazards arising from the chemical product | <p>Extremely dangerous when exposed to excessive heat or other sources of ignition such as sparks, open flames or match and cigarette flames, welding operations, pilot lights and electric motors. May accumulate static charge by flow or agitation. Vapors of heated liquid may ignite by static discharge. Vapors may be denser than air and tend to accumulate in low or confined areas such as manholes and basements. They can</p> |

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|                                |  |
|--------------------------------|--|
| Specific extinguishing methods | travel long distances, causing the flame to recede or new fires in open and confined environments. Containers may explode if heated. Combustion of the chemical or its packaging can form irritating and toxic gases such as monoxide and carbon dioxide. If material is on fire or involved in fire: Submerge with water. Cool all affected containers with plenty of water. Approach fire against wind to avoid hazardous vapors and toxic decomposition products. Use large amounts of water in containers involved in fire. If necessary, use water spray to cool fire-exposed containers.<br>Self-contained breathing apparatus (SCBA) operated in positive pressure mode and complete protective clothing. |
|--------------------------------|--|

### 6- ACCIDENTAL RELEASE MEASURES

|                           |  |
|---------------------------|--|
| Personal precautions      | Prevent sparks or flames. Do not smoke. Do not touch damaged containers or spilled material without wearing suitable clothing. Avoid exposure to the product. Stay away from low areas, with the wind behind you. Use personal protective equipment as described in section 8.   |
| Protective equipment      | Wear PPE complete with safety glasses, protective gloves, suitable protective clothing, and closed shoes.  |
| Emergency procedures      | In case of large leaks, where exposure is large, it is recommended to use respiratory protection with a filter against vapors. Evacuate the area within a radius of at least 300 meters. If the tank or cargo is involved in the fire, isolate the area within a radius of 800 meters in all directions. Keep unauthorized persons away from the area. Stop the leak if it can be done without risk. |
| Environmental precautions | Prevent spilled product from reaching water courses and sewage system.   |
| Methods and materials for | Containment techniques may include bunding, covering of  |

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containment

drains and capping procedures.

Methods and materials for cleaning up

Use water mist or vapor suppressing foam to reduce the dispersion of the vapors. Use natural barriers or containment of spillage. Collect spilled product and place in appropriate containers. Adsorb the remaining product with dry sand, earth, vermiculite, or other inert material. Place the adsorbed material in appropriate containers and remove them to a safe place. For disposal, proceed according to Section 13 of this SDS.

### 7- HANDLING AND STORAGE

Precautions for safe handling

Handle in a ventilated area or with a general local ventilation / exhaust system. Avoid formation of vapors. Avoid exposure to the product. Avoid contact with incompatible materials. Ground all equipment. Use explosion-proof electrical equipment and lighting. Ground the lines and equipment used during the transfer to reduce the possibility of a fire or explosion initiated by a static spark. Use personal protective equipment as described in section 8. Wash hands and face thoroughly after handling and before eating, drinking, smoking, or going to the bathroom. Contaminated clothing should be changed and washed before reuse. Remove clothing and protective equipment contaminated before entering eating areas.

Conditions for safe storage, including any incompatibilities

Keep away from heat, sparks, open flames, and hot surfaces. - Do not smoke. Keep container tightly closed. Ground the container vessel and the receiver of the product during transfers. Only use anti-sparking tools. Avoid the accumulation of electrostatic charges. Use electrical equipment, ventilation, and lighting explosion proof. Incompatible with highly oxidising substances.

Recommended packaging: similar to original packaging.

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### 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

Permissible concentration

| Chemical or common name | TLV – TWA (ACGIH, 2021)                                  | PEL – TWA (OSHA, 2019)                      | REL – TWA (NIOSH, 2019)                         |
|-------------------------|--|---|---|
| Acetone A4              | TWA 250 ppm<br>STEL 500 ppm                              | 500 ppm (ST)<br>750 ppm (C)<br>3000 ppm     | 250 ppm   |
| Zinc oxide              | TWA 2 mg/m <sup>3</sup> R<br>STEL 10 mg/m <sup>3</sup> R | 10 mg/m <sup>3</sup><br>5 mg/m <sup>3</sup> | 5 mg/m <sup>3</sup> (C)<br>15 mg/m <sup>3</sup> |

Occupational exposure limit

A4: Not classified as a human carcinogen  
Propanol: IDLH (NIOSH, 2010): 2,000 ppm [10% LEL]  
Acetone: IDLH (NIOSH, 2014): 2,500 ppm  
ST: Short Term Exposure Limit  
C: Ceiling limit  
R: Respirable particulate matter  
N.E. Not established  
ACGIH - BEI (2021):

Biological limit

Acetone:  
Acetone in urine (end of workday): 25 mg/L. No.  
Ns: Not specific.

Appropriate engineering controls

Promote direct mechanical ventilation and exhaust system to the outside environment. These measures help reduce exposure to product. Keep atmospheric concentrations of the chemical agent below the indicated occupational exposure limits.

Individual protection measures, such as personal protective equipment

Respiratory protection

Respiratory protection with filter against organic vapors or mist in case of exposure to the product.  
Based on occupational exposure limits and inhalation hazards of the product, a risk assessment should be performed to

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|                          | properly define respiratory protection in view of the conditions of product use.   |
| Hand protection          | Nitrile protective gloves.   |
| Eye protection           | Safety glasses with side shields.  |
| Skin and body protection | Suitable safety clothing and closed shoes. The material used should be waterproof. Wear anti-static footwear and clothing. |
| Special precautions      | Not established.   |

### 9 - PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

|   |                        |
|---|------------------------|
| Appearance (physical state, color, etc.)          | Liquid viscous, brown. |
| Odour   | Not available.         |
| Odour threshold                                   | Not available.         |
| pH  | Not available.         |
| Melting point/freezing point                      | Not available.         |
| Boiling point, initial boiling, and boiling range | 50°C.                  |
| Flashpoint  | < -20 °C.              |
| Upper/lower flammability or explosive limits      | Not available.         |
| Vapour pressure                                   | Not available.         |
| Vapour density                                    | Not available.         |
| Relative density                                  | Not available.         |
| Solubility(ies)                                   | Not available.         |
| n-octanol/water partition coefficient             | Not available.         |

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| Auto-ignition temperature | Not available.   |
| Decomposition temperature | Not established. |
| Odour threshold           | Not established. |
| Evaporation rate          | Not available.   |
| Flammability              | Not established. |
| Viscosity                 | Not available.   |
| Other information         | Not available.   |

### 10 - STABILITY AND REACTIVITY

|                                    |  |
|------------------------------------|--|
| Reactivity and Chemical stability  | Product is stable under normal conditions of temperature and pressure.                     |
| Possibility of hazardous reactions | May react dangerously in contact with incompatible materials.                              |
| Conditions to avoid                | Elevated temperatures. Ignition sources, contact with incompatible materials and humidity. |
| Incompatible materials             | Incompatible with highly oxidising substances.   |
| Hazardous decomposition products   | Decomposition of product may generate toxic gases such as CO, CO <sub>2</sub> .            |

### 11 - TOXICOLOGICAL INFORMATION

|                |   |
|----------------|---|
|                | The product is not expected to present acute oral, dermal or inhalation toxicity. |
|                | <u>Acetone:</u>   |
| Acute toxicity | LD <sub>50</sub> (oral, rats): 5800 mg/kg.  |
|                | LD <sub>50</sub> (dermal, rabbits): 7,400 mg/kg.                                  |
|                | LC <sub>50</sub> (inhalation, rats, steam, 4h): 50.1 mg/L.                        |
|                | <u>Salicylic acid:</u>  |

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LD50 (oral, rats): 891 mg/kg.

LD50 (dermal, rats): > 2,000 mg/kg.

LC50 (inhalation, rats, 1h):> 900 mg/m<sup>3</sup>.

Zinc oxide:

LD50 (oral, rats): 2,000 - 5,000 mg/kg.

LD50 (dermal, rats): 2000 mg/kg.

LC50 (inhalation, rats, 4h): 1.79 – 5.7 mg/L.

Acute Toxicity Estimate (ATE):

ATEm oral: > 2,000 mg/kg.

Exposure to the product can cause gastrointestinal disturbances, fatigue, headache, vomiting, dizziness, weakness, drowsiness.

The product is not expected to cause skin irritation.

Acetone:

Skin irritation/corrosion

Rabbit skin irritation test, result: non-irritating.

Zinc oxide:

Skin irritation in rabbits, 24-hour duration: Result: negative.

The product may cause eye irritation with watering, redness and burning.

Acetone:

Eye damage/irritation

Rabbit skin irritation test, duration 24h. Result, not irritating.

Salicylic acid:

In vivo tests conducted with rabbits showed that salicylic acid induced severe irritation, not recovering after 21 days of treatment.

The product is not expected to cause skin sensitization.

Acetone:

Respiratory or skin sensitization

Skin sensitization test in guinea pigs and mice, negative results.

Salicylic acid:

Tests conducted with mice did not induce sensitization to the skin of animals.

Zinc oxide:

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|                                |   |
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|                                | <p>Skin sensitization test with guinea pigs (OECD 406): negative result.</p> <p>The product is not classified as mutagenic.</p> <p><u>Acetone:</u></p> <p>In vitro genotoxicity: There was no evidence of genotoxicity activity of acetone in vitro in Ames studies with Salmonella typhimurium.</p> <p>In vivo genotoxicity: No genotoxic activity of acetone was evidenced in vivo.</p> <p><u>Salicylic acid:</u></p> <p>In vitro and in vivo studies were conducted with salicylic acid, and in all tests, the results were negative, leading to the conclusion that salicylic acid is not genotoxic.</p> <p><u>4-tert-Butylphenol:</u></p> <p>Gene mutation assays in bacteria, chromosomal aberration in vitro and cytogenicity study in mammals were conducted, and the results were negative.</p> <p><u>Zinc oxide:</u></p> <p>Ames test – negative result. Chromosomal aberration test – negative result.</p> <p>The product is not expected to cause cancer.</p> |
| Reproductive cell mutagenicity | <p><u>Acetone:</u></p> <p>ACGIH classifies acetone as group A4 - Not classified as carcinogenic to humans.</p> <p>Suspected of damaging fertility or the fetus.</p> <p><u>Salicylic acid:</u></p> <p>Studies conducted with rats in the gestational period through the oral administration of salicylic acid, showed that the beginning of parturition increased significantly on days 20 and 21 of gestation in rats. It was also evidenced, increased neonatal mortality, decreased litter size, and increased incidence of external anomalies and skeletal anomalies in the</p>  |
| Carcinogenicity                |   |
| Reproductive toxicity          |   |

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|  |  |
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|  | <p>offspring, in addition to maternal body weight loss, observed in the administration of diet on days 8 to 14 of gestation in rats. Studies in rats have shown that salicylic acid causes teratogenic effects.</p> <p><u>4-tert-Butylphenol:</u><br/>Studies to assess toxicity to reproduction and fetal development showed that the component causes a reduction in the weight of the offspring and an increase in the mortality rate of the offspring.</p> |
| Specific target organ toxicity – single exposure   | Inhalation of product vapors can cause narcotic effects with drowsiness, dizziness, headache, fatigue, and nausea.   |
| Specific target organ toxicity – repeated exposure | The product is not expected to cause specific target organ toxicity through repeated exposure.   |
| Aspiration hazard                                  | It is not expected that the product presents aspiration hazard.  |

## 12 - ECOLOGICAL INFORMATION

Environmental effects, behavior, and fate of the product

|             |  |
|-------------|--|
|             | <p>Harmful to aquatic life with long lasting effects.</p> <p><u>4-tert-Butylphenol:</u><br/>EC<sub>50</sub> (<i>Daphnia magna</i>, 48h): 3.4 mg/L.<br/>NOEC (<i>Daphnia magna</i>, 21 days): 0.73 mg/L.</p> <p><u>Salicylic acid:</u><br/>EC<sub>50</sub> (<i>Pseudokirchneriella subcapitata</i>, 96h): 65 mg/L.<br/>LC<sub>50</sub> (<i>Pimephales promelas</i>, 96h): 1,370 mg/L.<br/>EC<sub>50</sub> (<i>Daphnia magna</i>, 48h): 870 mg/L.<br/>NOEC (<i>Daphnia magna</i>, 21 days): &gt; 10 mg/L.</p> <p><u>Zinc oxide:</u><br/>LC<sub>50</sub> (Fish, 96h) 112 - 8 062 µg/L.<br/>LC<sub>50</sub> (Fish, 96h) 330 µg/L.<br/>NOEC (Fish, 5 months): 50 - 130 µg/L.<br/>EC<sub>50</sub> (<i>Daphnia</i>, 48 h) 155 - 100,000 µg/L.</p> |
| Ecotoxicity |  |

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|                               |   |
|-------------------------------|---|
| Persistence and degradability | <p>EC<sub>50</sub> (Seaweed, 96h days) 300 - 1,940 µg/L.<br/>NOEC (Seaweed, 9 months) 33.3 - 100 µg/L.<br/>NOEC (Seaweed, 7 months) 100 µg/L.<br/>NOEC (Seaweed, 6 months) 100 µg/L.<br/>The product is expected to be non-persistent and rapidly degraded.</p> <p><u>Acetone:</u><br/>Biodegradability: 90% in 28 days.<br/>Presents low bioaccumulative potential in aquatic organisms.</p> |
| Bioaccumulative potential     | <p><u>Acetone:</u><br/>BCF: 3.<br/>Log kow: -0.24.</p> <p><u>4-tert-Butylphenol:</u><br/>Log kow: 3.0.</p>  |
| Mobility in soil              | <p>Not available.</p>   |
| Other adverse effects         | <p>There are not known adverse environmental effects of the product.</p>  |

### 13 - DISPOSAL CONSIDERATIONS

|  |  |
|--|--|
| Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging | <p>Must be disposed of as hazardous waste in compliance with local regulations. The treatment and disposal should be evaluated for each specific product.</p> <p>Keep product residues in their original containers and properly closed. Disposal should be in accordance with the regulations for the product.</p> <p>Do not reuse empty containers. These may contain product residues and should be kept closed and sent for appropriate disposal as established for the product.</p> |
|--|--|

### 14 - TRANSPORT INFORMATION

International regulations

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|   |   |
|---|---|
| Land  | UN – “United Nations”<br>Recommendations on the TRANSPORT OF DANGEROUS<br>GOODS. Model Regulations<br>DOT - U.S. Department of Transportation   |
| UN number   | 1133  |
| UN proper shipping name   | ADHESIVES, containing a flammable liquid  |
| Transport hazard class(es)  | 3   |
| Subsidiary risk   | NA  |
| Packing group   | II  |
| Sea   | IMO – International Maritime Organization<br>International Maritime Dangerous Goods Code (IMDG Code)  |
| UN number   | 1133  |
| UN proper shipping name   | ADHESIVES containing flammable liquid   |
| Transport hazard class(es)  | 3   |
| Subsidiary risk   | NA  |
| Packing group   | II  |
| Environmental hazards   | Product is not considered a marine pollutant..  |
| EmS   | F-E, S-D  |
| Air   | IATA – International Air Transport Association<br>Dangerous Goods Regulation (DGR)  |
| UN number   | 1133  |
| UN proper shipping name   | ADHESIVES containing flammable liquid   |
| Transport hazard class(es)  | 3   |
| Subsidiary risk   | NA  |
| Packing group   | II  |
| Transport in bulk according<br>to MARPOL 73/78, Annex<br>II, and the IBC Code | Consult regulations:<br>- International Maritime Organization. MARPOL: Articles,<br>protocols, annexes, unified interpretations of the International<br>Convention for the Prevention of Pollution from Ships, 1973, as |

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modified by the Protocol of 1978 relating thereto, consolidated edition. IMO, London, 2006.

- International Maritime Organization. IBC code: International code for the construction and equipment of shipping carrying dangerous chemicals in bulk: With Standards and guidelines relevant to the code. IMO, London, 2007.

Special precautions

There is no need of special precautions.

### 15 - REGULATORY INFORMATION

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

International Labor Organization C170 Chemicals Convention, from June 25th, 1990: Occupational Safety and Health – Toxic Substances and Agents.

Hazard Communication Standard (HCS) 29 CFR: 1910.1200 - Appendix A, B, C, D, E, F.

GLOBALY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELLING OF CHEMICALS (GHS). 8. rev. ed.

U.S. Federal Regulations: United States inventory (TSCA): Acetone is listed. Salicylic is listed. Zinc oxide is listed. 4-tert-butylphenol is listed.

California Proposition 65: Ingredients are not listed.

### 16 - OTHER INFORMATION

This SDS was prepared based on current knowledge about the proper product handling and under normal conditions of use, in accordance with the application specified on the packaging. Any other use of the product involving their combination with other materials, and use various forms of those indicated, are the responsibility of the user. Warns that the handling of any chemical substance requires the prior knowledge of its hazards for the user. In the workplace it is for the user company's product promotes training of its collaborators about the possible risks arising from exposure to the chemical.

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SDS elaborated in September 2021.

Hazard statements described in section 3:

H225 Highly flammable liquid and vapour.

H302 Harmful if swallowed.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H320 causes eye irritation.

H336 May cause drowsiness or dizziness.

H361 May damage fertility or the unborn child.

H400 Very toxic to aquatic life.

H401 Toxic to aquatic life.

H402 harmful to aquatic life.

H410 Very toxic to aquatic life with lasting effects.

Abbreviations:

ACGIH – American Conference of Governmental Industrial Hygienists

BCF – Bioconcentration Factor

CAS – Chemical Abstracts Service

LE<sub>50</sub> – Effective concentration 50%

LC<sub>50</sub> – Lethal Concentration 50%

LD<sub>50</sub> – Lethal Dose 50%

NIOSH – National Institute of Occupational Safety and Health

OSHA – Occupational Safety & Health Administration

PEL – Permissible Exposure Limit

REL – Recommended Exposure Limit

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STEL – Short Term Exposure Limit

TLV – Threshold Limit Value

TWA – Time Weighted Average

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