

# Polyaspartic 7500 'A'

# **ICP Building Solutions Group**

Version No: **4.4**Safety Data Sheet according to OSHA HazCom Standard (2012) requirements

Issue Date: **08/23/2019**Print Date: **08/23/2019**S.GHS.USA.EN

# **SECTION 1 IDENTIFICATION**

#### **Product Identifier**

| Product name                  | Polyaspartic 7500 'A' |
|-------------------------------|-----------------------|
| Synonyms                      | Not Available         |
| Other means of identification | Not Available         |

#### Recommended use of the chemical and restrictions on use

| Relevant identified uses | High Performance Coating |
|--------------------------|--------------------------|
|--------------------------|--------------------------|

### Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

| Registered company name | ICP Building Solutions Group                   |  |
|-------------------------|--|--|
| Address                 | 4565 W Watkins Street Phoenix AZ United States |  |
| Telephone               | 623-435-2277                                   |  |
| Fax                     | Not Available                                  |  |
| Website                 | www.icpgroup.com                               |  |
| Email                   | Not Available                                  |  |

# Emergency phone number

| Association / Organisation        | ChemTel        |
|-----------------------------------|----------------|
| Emergency telephone numbers       | 1-800-255-3924 |
| Other emergency telephone numbers | 1-813-248-0585 |

# **SECTION 2 HAZARD(S) IDENTIFICATION**

#### Classification of the substance or mixture



Note: The hazard category numbers found in GHS classification in section 2 of this SDSs are NOT to be used to fill in the NFPA 704 diamond. Blue = Health Red = Fire Yellow = Reactivity White = Special (Oxidizer or water reactive substances)

Classification

Eye Irritation Category 2A, Respiratory Sensitizer Category 1, Chronic Aquatic Hazard Category 2, Acute Aquatic Hazard Category 3, Skin Sensitizer Category 1, Carcinogenicity Category 2

#### Label elements

Hazard pictogram(s)





SIGNAL WORD

DANGER

#### Hazard statement(s)

| H319 | Causes serious eye irritation.   |
|------|--|
| H334 | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| H411 | Toxic to aquatic life with long lasting effects.                           |
| H402 | Harmful to aquatic life.   |
| H317 | May cause an allergic skin reaction.                                       |

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H351 Suspected of causing cancer.

### Hazard(s) not otherwise classified

Not Applicable

# Precautionary statement(s) General

| P101 | If medical advice is needed, have product container or label at hand. |  |
|------|---|--|
| P102 | Keep out of reach of children.  |  |

### Precautionary statement(s) Prevention

| P202 | Do not handle until all safety precautions have been read and understood.  |
|------|--|
| P271 | Use only outdoors or in a well-ventilated area.                            |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |

#### Precautionary statement(s) Response

| P304+P340   | P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.                       |  |
|---|--|--|
| P308+P313   | 08+P313 IF exposed or concerned: Get medical advice/attention.   |  |
| P303+P361+P353 IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/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. |  |

# Precautionary statement(s) Storage

| P405      | Store locked up.                            |
|-----------|---|
| P403+P235 | Store in a well ventilated place. Keep cool |

# Precautionary statement(s) Disposal

| P501 | Dispose of contents/container in accordance with local regulations. |
|------|---|
|------|---|

# **SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS**

#### Substances

See section below for composition of Mixtures

# Mixtures

| CAS No        | %[weight] | Name   |
|---------------|-----------|--|
| Not Available | 10-25     | Proprietary Trade Secret                                   |
| 90-12-0       | <2.5      | 1-methylnaphthalene  |
| 91-57-6       | <4.5      | 2-methylnaphthalene  |
| 91-20-3       | <2.5      | naphthalene  |
| 64365-23-7    | 1-5       | dimethylsiloxane, hydroxy terminated, ethoxyl-propoxylate  |
| 136210-30-5   | 35-60     | aspartic acid, N,N'-(methylenedicyclohexanediyl)bis-,ester |
| 145899-78-1   | 1-5       | 3-oxazolidineethanol, 2-(1-methylethyl)-, carbonate (2:1)  |

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

# **SECTION 4 FIRST-AID MEASURES**

# Description of first aid measures

|              | 4  |  |
|--------------|--|--|
| Eye Contact  | If this product comes in contact with the eyes:  Vash out immediately with fresh running water.  Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids  Seek medical attention without delay; if pain persists or recurs seek medical attention.  Removal of contact lenses after an eye injury should only be undertaken by skilled personnel. |  |
| Skin Contact | If skin contact occurs:  Immediately remove all contaminated clothing, including footwear.  Flush skin and hair with running water (and soap if available).  Seek medical attention in event of irritation.  |  |
| Inhalation   | If furnes, aerosols or combustion products are inhaled remove from contaminated area.      Other measures are usually unnecessary.   |  |
| Ingestion    | <ul> <li>Immediately give a glass of water.</li> <li>First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.</li> <li>If spontaneous vomiting appears imminent or occurs, hold patient's head down, lower than their hips to help avoid possible aspiration of vomitus.</li> </ul>   |  |

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See Section 11

#### Indication of any immediate medical attention and special treatment needed

Any material aspirated during vomiting may produce lung injury. Therefore emesis should not be induced mechanically or pharmacologically. Mechanical means should be used if it is considered necessary to evacuate the stomach contents; these include gastric lavage after endotracheal intubation. If spontaneous vomiting has occurred after ingestion, the patient should be monitored for difficult breathing, as adverse effects of aspiration into the lungs may be delayed up to 48 hours.

Treat symptomatically.

for naphthalene intoxication: Naphthalene requires hepatic and microsomal activation prior to the production of toxic effects. Liver microsomes catalyse the initial synthesis of the reactive 1,2-epoxide intermediate which is subsequently oxidised to naphthalene dihydrodiol and alpha-naphthol. The 2-naphthoquinones are thought to produce haemolysis, the 1,2-naphthoquinones are thought to be responsible for producing cataracts in rabbits, and the glutathione-adducts of naphthalene-1,2-oxide are probably responsible for pulmonary toxicity. Suggested treatment regime:

- Induce emesis and/or perform gastric lavage with large amounts of warm water where oral poisoning is suspected.
- Instill a saline cathartic such as magnesium or sodium sulfate in water (15 to 30g).
- Demulcents such as milk, egg white, gelatin, or other protein solutions may be useful after the stomach is emptied but oils should be avoided because they promote absorption.
- ▶ If eyes/skin contaminated, flush with warm water followed by the application of a bland ointment.
- ▶ Severe anaemia, due to haemolysis, may require small repeated blood transfusions, preferably with red cells from a non-sensitive individual.
- Where intravascular haemolysis, with haemoglobinuria occurs, protect the kidneys by promoting a brisk flow of dilute urine with, for example, an osmotic diuretic such as mannitol. It may be useful to alkalinise the urine with small amounts of sodium bicarbonate but many researchers doubt whether this prevents blockage of the renal tubules.
- ▶ Use supportive measures in the case of acute renal failure. GOSSELIN, SMITH HODGE: Clinical Toxicology of Commercial Products, 5th Ed.

### **SECTION 5 FIRE-FIGHTING MEASURES**

#### **Extinguishing media**

- Foam.
- Dry chemical powder.

#### Special hazards arising from the substrate or mixture

Fire Incompatibility

Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result

| Special protective equipmen | Special protective equipment and precautions for fire-fighters   |  |  |  |  |
|-----------------------------|--|--|--|--|--|
| Fire Fighting               | <ul> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear full body protective clothing with breathing apparatus.</li> </ul>  |  |  |  |  |
| Fire/Explosion Hazard       | ► Combustible.  ► Slight fire hazard when exposed to heat or flame.  Combustion products include: carbon dioxide (CO2) nitrogen oxides (NOx) other pyrolysis products typical of burning organic material.  May emit poisonous furnes.  May emit corrosive furnes. |  |  |  |  |

#### **SECTION 6 ACCIDENTAL RELEASE MEASURES**

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

See section 8

# **Environmental precautions**

See section 12

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

| Minor Spills | Environmental hazard - contain spillage.  • Remove all ignition sources.  • Clean up all spills immediately. |
|--------------|--|
| Major Spills | Environmental hazard - contain spillage.  Moderate hazard.  Clear area of personnel and move upwind.         |

Personal Protective Equipment advice is contained in Section 8 of the SDS.

#### **SECTION 7 HANDLING AND STORAGE**

# Precautions for safe handling

| i recautions for sale nanami | 9   |
|------------------------------|---|
| Safe handling                | Avoid all personal contact, including inhalation.      Wear protective clothing when risk of exposure occurs.      DO NOT allow clothing wet with material to stay in contact with skin |
| Other information            | ► Store in original containers.  ► Keep containers securely sealed.   |

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 Metal can or drum Packaging as recommended by manufacturer.
 Check all containers are clearly labelled and free from leaks. Suitable container For alkyl aromatics: The alkyl side chain of aromatic rings can undergo oxidation by several mechanisms. The most common and dominant one is the attack by oxidation at benzylic carbon as the intermediate formed is stabilised by resonance structure of the ring. Storage incompatibility ▶ Vigorous reactions, sometimes amounting to explosions, can result from the contact between aromatic rings and strong oxidising agents. ► Aromatics can react exothermically with bases and with diazo compounds. ► Segregate from alcohol, water.

# **SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION**

Overalls.

▶ P.V.C.

Other protection

# **Control parameters**

#### OCCUPATIONAL EXPOSURE LIMITS (OEL)

#### INGREDIENT DATA

| Source   | Ingredient          | Material name                         | TWA                  | STEL                 | Peak             | Notes  |
|--|---------------------|---------------------------------------|----------------------|----------------------|------------------|--|
| US ACGIH Threshold Limit Values (TLV)                    | 1-methylnaphthalene | 1-Methylnaphthalene                   | 0.5 ppm              | Not Available        | Not<br>Available | TLV® Basis: LRT irr; lung dam                    |
| US ACGIH Threshold Limit Values (TLV)                    | 2-methylnaphthalene | 2-Methylnaphthalene                   | 0.5 ppm              | Not Available        | Not<br>Available | TLV® Basis: LRT irr; lung dam                    |
| US NIOSH Recommended<br>Exposure Limits (RELs)           | naphthalene         | Naphthalin, Tar camphor,<br>White tar | 10 ppm / 50<br>mg/m3 | 75 mg/m3 / 15<br>ppm | Not<br>Available | Not Available                                    |
| US ACGIH Threshold Limit Values (TLV)                    | naphthalene         | Naphthalene                           | 10 ppm               | Not Available        | Not<br>Available | TLV® Basis: URT irr; cataracts; hemolytic anemia |
| US OSHA Permissible Exposure<br>Levels (PELs) - Table Z1 | naphthalene         | Naphthalene                           | 10 ppm / 50<br>mg/m3 | Not Available        | Not<br>Available | Not Available                                    |

### **EMERGENCY LIMITS**

| Ingredient          | Material name         | TEEL-1   | TEEL-2   | TEEL-3    |
|---------------------|-----------------------|----------|----------|-----------|
| 1-methylnaphthalene | Methylnaphthalene, 1- | 20 mg/m3 | 61 mg/m3 | 360 mg/m3 |
| 2-methylnaphthalene | Methylnaphthalene, 2- | 9 mg/m3  | 54 mg/m3 | 320 mg/m3 |
| naphthalene         | Naphthalene           | 15 ppm   | 83 ppm   | 500 ppm   |

| Ingredient  | Original IDLH | Revised IDLH  |
|---|---------------|---------------|
| Proprietary Trade Secret                                      | Not Available | Not Available |
| 1-methylnaphthalene   | Not Available | Not Available |
| 2-methylnaphthalene   | Not Available | Not Available |
| naphthalene   | 250 ppm       | Not Available |
| dimethylsiloxane, hydroxy terminated, ethoxyl-propoxylate     | Not Available | Not Available |
| aspartic acid,<br>N,N'-(methylenedicyclohexanediyl)bis-,ester | Not Available | Not Available |
| 3-oxazolidineethanol, 2-(1-methylethyl)-, carbonate (2:1)     | Not Available | Not Available |

| Exposure controls                |  |
|----------------------------------|--|
| Appropriate engineering controls | Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection.   |
| Personal protection              |  |
| Eye and face protection          | <ul><li>Safety glasses with side shields.</li><li>Chemical goggles.</li></ul>  |
| Skin protection                  | See Hand protection below  |
| Hands/feet protection            | <ul> <li>Wear chemical protective gloves, e.g. PVC.</li> <li>Wear safety footwear or safety gumboots, e.g. Rubber</li> <li>NOTE:</li> <li>The material may produce skin sensitisation in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.</li> <li>The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer.</li> <li>Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.</li> </ul> |
| Body protection                  | See Other protection below   |

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Respiratory protection

Type A Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

- F Cartridge respirators should never be used for emergency ingress or in areas of unknown vapour concentrations or oxygen content.
- The wearer must be warned to leave the contaminated area immediately on detecting any odours through the respirator. The odour may indicate that the mask is not functioning properly, that the vapour concentration is too high, or that the mask is not properly fitted. Because of these limitations, only restricted use of cartridge respirators is considered appropriate.
- Cartridge performance is affected by humidity. Cartridges should be changed after 2 hr of continuous use unless it is determined that the humidity is less than 75%, in which case, cartridges can be used for 4 hr. Used cartridges should be discarded daily, regardless of the length of time used

# **SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

#### Information on basic physical and chemical properties

| Appearance                                   | Not Available |   |               |
|--|---------------|---|---------------|
| Physical state                               | Liquid        | Relative density (Water = 1)            | Not Available |
| Odour  | Not Available | Partition coefficient n-octanol / water | Not Available |
| Odour threshold                              | Not Available | Auto-ignition temperature (°C)          | Not Available |
| pH (as supplied)                             | Not Available | Decomposition temperature               | Not Available |
| Melting point / freezing point (°C)          | Not Available | Viscosity (cSt)                         | Not Available |
| Initial boiling point and boiling range (°C) | Not Available | Molecular weight (g/mol)                | Not Available |
| Flash point (°C)                             | Not Available | Taste                                   | Not Available |
| Evaporation rate                             | Not Available | Explosive properties                    | Not Available |
| Flammability                                 | Not Available | Oxidising properties                    | Not Available |
| Upper Explosive Limit (%)                    | Not Available | Surface Tension (dyn/cm or mN/m)        | Not Available |
| Lower Explosive Limit (%)                    | Not Available | Volatile Component (%vol)               | Not Available |
| Vapour pressure (kPa)                        | Not Available | Gas group                               | Not Available |
| Solubility in water                          | Immiscible    | pH as a solution (1%)                   | Not Available |
| Vapour density (Air = 1)                     | Not Available | VOC g/L                                 | Not Available |

# **SECTION 10 STABILITY AND REACTIVITY**

| Reactivity                         | See section 7  |
|------------------------------------|--|
| Chemical stability                 | <ul> <li>Unstable in the presence of incompatible materials.</li> <li>Product is considered stable.</li> </ul> |
| Possibility of hazardous reactions | See section 7  |
| Conditions to avoid                | See section 7  |
| Incompatible materials             | See section 7  |
| Hazardous decomposition products   | See section 5  |

# **SECTION 11 TOXICOLOGICAL INFORMATION**

# Information on toxicological effects

| Inhaled  Inh | Information on toxicological |   |
|--|------------------------------|---|
| Ingestion  The material has NOT been classified by EC Directives or other classification systems as 'harmful by ingestion'. This is because of the lack of corroborating animal or human evidence. Ingestion of naphthalene and related compounds may produce abdominal cramps with nausea, vomiting, diarrhoea, headache, profuse sweating, listlessness, confusion, and in severe poisonings, coma with or without convulsions. Irritation of the bladder may also occur, producing urgency, painful urination, and the passage of brown or black urine with or without albumin or casts.  Skin Contact  Skin Contact  Skin contact is not thought to have harmful health effects (as classified under EC Directives); the material may still produce health damage following entry through wounds, lesions or abrasions.  | Inhaled                      | Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting. Inhalation of naphthalene vapour is linked with headache, loss of appetite, nausea, damage to the eyes and kidneys. According to animal testing, long term exposure may cause excessive weakness and increased salivation, weight loss, difficulty breathing, collapse, and evidence of damage to the skin, liver and lungs.  Central nervous system (CNS) depression may include general discomfort, symptoms of giddiness, headache, dizziness, nausea, anaesthetic effects, slowed reaction time, slurred speech and may progress to unconsciousness. Serious poisonings may result in respiratory depression and may be fatal. |
| Skin Contact through wounds, lesions or abrasions.   | Ingestion                    | The material has NOT been classified by EC Directives or other classification systems as 'harmful by ingestion'. This is because of the lack of corroborating animal or human evidence.  Ingestion of naphthalene and related compounds may produce abdominal cramps with nausea, vomiting, diarrhoea, headache, profuse sweating, listlessness, confusion, and in severe poisonings, coma with or without convulsions. Irritation of the bladder may also occur, producing urgency, painful  |
|  | Skin Contact                 | through wounds, lesions or abrasions.   |

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Workers sensitised to naphthalene and related compounds show an inflammation of the skin with scaling and reddening. Some individuals show an allergic reaction.

Open cuts, abraded or irritated skin should not be exposed to this material
Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.

This material can cause eye irritation and damage in some persons.
Long term exposure to naphthalene has produced clouding of the lens (cataracts) in workers.

Chronic

There has been concern that this material can cause cancer or mutations, but there is not enough data to make an assessment.

Repeated or long-term occupational exposure is likely to produce cumulative health effects involving organs or biochemical systems.

Inhaling this product is more likely to cause a sensitisation reaction in some persons compared to the general population.

Skin contact with the material is more likely to cause a sensitisation reaction in some persons compared to the general population.

Animal testing indicates that inhalation of naphthalene may increase the incidence of respiratory tumours and may aggravate chronic inflammation.

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|--|---|---------------------------|---|
| Polyaspartic 7500 'A'  | TOXICITY IRRITATION  Not Available Not Available  |                           |   |
| 1-methylnaphthalene  | ro)   |                           | IRRITATION  Not Available               |
| 2-methylnaphthalene  | TOXICITY  Oral (rat) LD50: 1630 mg/kg <sup>[2]</sup>  |                           | IRRITATION  Not Available               |
| naphthalene         TOXICITY         IRRITATION           dermal (rat) LD50: >2500 mg/kg <sup>[2]</sup> Eye (rabbit): 100 mg - mi           Oral (rat) LD50: 490 mg/kg <sup>[2]</sup> Skin (rabbit):495 mg (open |   |                           |   |
| dimethylsiloxane, hydroxy terminated,<br>ethoxyl-propoxylate   | TOXICITY  Not Available   | IRRITATION  Not Available |   |
| aspartic acid, N,N'-(methylenedicyclohexanediyl)bis-,ester   | TOXICITY  dermal (rat) LD50: >2000 mg/kg <sup>[2]</sup> Oral (rat) LD50: >2000 mg/kg <sup>[2]</sup> |                           | IRRITATION  Eye : Mild  Skin : Moderate |
| 3-oxazolidineethanol, 2-(1-methylethyl)-,<br>carbonate (2:1)   | TOXICITY  dermal (rat) LD50: >2000 mg/kg <sup>[2]</sup> Oral (rat) LD50: >2000 mg/kg <sup>[2]</sup> |                           | IRRITATION  Not Available               |

Legend:

1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2.\* Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances

## NAPHTHALENE

The material may be irritating to the eye, with prolonged contact causing inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.

WARNING: This substance has been classified by the IARC as Group 2B: Possibly Carcinogenic to Humans.

The material may cause skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of vesicles, scaling and thickening of the skin.

# DIMETHYLSILOXANE, HYDROXY TERMINATED, ETHOXYL-PROPOXYLATE

Siloxanes may impair liver and hormonal function, as well as the lung and kidney. They have not been found to be irritating to the skin and eyes.

No significant acute toxicological data identified in literature search.

# ASPARTIC ACID, N,N'-(METHYLENEDICYCLOHEXANEDIYL)BIS-,ESTER

for similar substance CAS 136210-10-32-7: Evidence of sensitisation (adjuvant test) \* After the first challenge very mild to clearly visible skin reddening was observed in 85% of the test substance animals. After the second challenge, very mild to clearly visible skin reddening was observed in 50% and 35% of the test substance animals challenged with 25% and 12% test substance respectively. Rat repeat dose oral toxicity - 29 days NOAEL 1000 mg/kg/day \* Genotoxicity ? bacterial reverse mutation non mutagenic \* Genotoxicity ? in vitro not determined \* Genotoxicity ? in vivo erythrocyte micronucleus test non clastogenic \* The notified chemical is considered to be of low acute toxicity via the oral, dermal and inhalation routes. Irritation and Sensitisation. The material is considered to be a slight skin and eye irritant and mild respiratory irritant and a skin sensitiser. As skin reactions were observed in 85% of animals at a concentration of 50%, the substance is considered to be a strong sensitiser. Repeated Dose Toxicity. In a 28 day study in rats, the No Observed Adverse Effect Level (NOAEL) was established as 1000 mg/kg bw/day based on the absence of adverse treatment related effects. Mutagenicity. The material was negative in an Ames test and an in vivo erythrocyte micronucleus test. The substance is not considered to be mutagenic. Neurotoxicity: In the in vivo mouse erythrocyte micronucleus test, following intraperitoneal administration of a fairly high dose (5345 mg/kg bw) some evidence of non-specific neurological impairment was seen. However, this was not observed in any of the tests conducted on any other species and could either be species-specific or an expression of generalised toxicity induced at high doses, as opposed to specific neurotoxicity. \* NICNAS Report

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3-OXAZOLIDINEETHANOL, 2-(1-METHYLETHYL)-, | \* lock lefter

CARBONATE (2:1)

\* Industrial Copolymers Limited SDS (incozol LV)

Polyaspartic 7500 'A' & 1-METHYLNAPHTHALENE & ASPARTIC ACID, N,N'-(METHYLENEDICYCLOHEXANEDIYL)BIS-,ESTER

Allergic reactions involving the respiratory tract are usually due to interactions between IgE antibodies and allergens and occur rapidly. Allergic potential of the allergen and period of exposure often determine the severity of symptoms.

Attention should be paid to atopic diathesis, characterised by increased susceptibility to nasal inflammation, asthma and eczema. Exogenous allergic alveolitis is induced essentially by allergen specific immune-complexes of the IgG type; cell-mediated reactions (T lymphocytes) may be involved. Such allergy is of the delayed type with onset up to four hours following exposure.

Polyaspartic 7500 'A' & 1-METHYLNAPHTHALENE & 2-METHYLNAPHTHALENE & ASPARTIC ACID, N,N'-(METHYLENEDICYCLOHEXANEDIYL)BIS-,ESTER & 3-OXAZOLIDINEETHANOL, 2-(1-METHYLETHYL)-, CARBONATE (2:1)

The following information refers to contact allergens as a group and may not be specific to this product. Contact allergies quickly manifest themselves as contact eczema, more rarely as urticaria or Quincke's oedema.

1-METHYLNAPHTHALENE & 2-METHYLNAPHTHALENE Asthma-like symptoms may continue for months or even years after exposure to the material ends. This may be due to a non-allergic condition known as reactive airways dysfunction syndrome (RADS) which can occur after exposure to high levels of highly irritating compound.

| Acute Toxicity                    | ×        | Carcinogenicity          | <b>✓</b> |
|-----------------------------------|----------|--------------------------|----------|
| Skin Irritation/Corrosion         | ×        | Reproductivity           | ×        |
| Serious Eye Damage/Irritation     | ✓        | STOT - Single Exposure   | ×        |
| Respiratory or Skin sensitisation | <b>✓</b> | STOT - Repeated Exposure | ×        |
| Mutagenicity                      | ×        | Aspiration Hazard        | ×        |

Legend:

★ – Data either not available or does not fill the criteria for classification

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Data available to make classification

#### **SECTION 12 ECOLOGICAL INFORMATION**

| <b>.</b>                                  | ENDPOINT                    | ENDPOINT TEST DURATION (HR) |            | SPECIES                          | VALUE      |            | SOURCE        |
|---|-----------------------------|-----------------------------|------------|----------------------------------|------------|------------|---------------|
| Polyaspartic 7500 'A'                     | Not Available Not Available |                             |            | Not Available                    | Not Availa | able       | Not Available |
|   | ENDPOINT                    | TEST DURATIO                | N (HR) SPE | CIES                             |            | VALUE      | SOURCE        |
|   | LC50                        | 96                          | Fish       | Fish                             |            | 1.341mg/L  | . 3           |
| 1-methylnaphthalene                       | EC50                        | 48                          | Crus       | Crustacea                        |            | 8.2mg/L    | 5             |
|   | EC50                        | 96                          | Alga       | e or other aquatic plan          | nts        | 2.122mg/L  | . 3           |
|   | ENDPOINT                    | TEST DURATIO                | N (HR) SPE | CIES                             |            | VALUE      | SOURCE        |
|   | LC50                        | 96                          | Fish       | Fish                             |            | 1.341mg/L  | . 3           |
| 2-methylnaphthalene                       | EC50                        | 48                          | Crus       | stacea                           |            | 5mg/L      | 5             |
|   | EC50                        | 96                          | Alga       | e or other aquatic pla           | nts        | 2.122mg/L  | . 3           |
|   | BCF                         | 24                          | Fish       | l                                |            | 0.5mg/L    | 4             |
|   |                             |                             |            |                                  |            |            |               |
|   | ENDPOINT                    | TEST DURATION               | N (HR) SPE | SPECIES                          |            | VALUE      | SOURCE        |
|   | LC50                        | 96                          | Fish       | Fish                             |            | 0.213mg/L  | 4             |
| naphthalene                               | EC50                        | 48                          | Crus       | Crustacea                        |            | 1.6mg/L    | 4             |
|   | EC50                        | 72                          | Alga       | Algae or other aquatic plants ca |            | ca.0.4mg/L | 1             |
|   | BCF                         | 12                          | Fish       | Fish                             |            | 10.2mg/L   | 4             |
|   | NOEC                        | 48 Fish 0.0001mg/L 4        |            | . 4                              |            |            |               |
| dimethylsiloxane, hydroxy terminated,     | ENDPOINT                    | TEST DURAT                  | TON (HR)   | SPECIES                          | VALUE      |            | SOURCE        |
| ethoxyl-propoxylate                       | Not Available               | Not Available               |            | Not Available                    | Not Availa | able       | Not Available |
|   |                             |                             |            |                                  |            |            |               |
|   | ENDPOINT                    | TEST DURATION               | N (HR) SPE | CIES                             |            | VALUE      | SOURCE        |
|   | LC50                        | 96                          | Fish       | I                                |            | 66mg/L     | 2             |
| aspartic acid,                            | EC50                        | 48                          | Crus       | Crustacea                        |            | 88.6mg/L   | 2             |
| N'-(methylenedicyclohexanediyl)bis-,ester | EC50                        | 72                          | Alga       | Algae or other aquatic plants    |            | 34mg/L     | 2             |
|   | EC100                       | 24                          | Crus       | Crustacea                        |            | 1-mg/L     | 2             |
|   | NOEC                        | 504                         | Crus       | stacea                           |            | 0.013mg/L  | . 2           |
| 3-oxazolidineethanol, 2-(1-methylethyl)-, | ENDPOINT                    | TEST DURAT                  | ION (HR)   | SPECIES                          | VALUE      |            | SOURCE        |
| carbonate (2:1)                           | Not Available               | Not Available               | ,          | Not Available                    | Not Availa |            | Not Available |

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#### Legend:

Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EPIWIN Suite V3.12 (QSAR) - Aquatic Toxicity Data (Estimated) 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data

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

Do NOT allow product to come in contact with surface waters or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment wash-waters.

For Aromatic Substances Series:

Environmental Fate: Large, molecularly complex polycyclic aromatic hydrocarbons, or PAHs, are persistent in the environment longer than smaller PAHs.

Atmospheric Fate: PAHs are 'semi-volatile substances' which can move between the atmosphere and the Earth's surface in repeated, temperature-driven cycles of deposition and volatilization. For naphthalene:

Environmental Fate: Naphthalene may be reach surface water and soil through transportation in water or being carried by air. Most airborne naphthalene is in a vapour form and hence deposition is expected to be slow.

DO NOT discharge into sewer or waterways.

#### Persistence and degradability

| Ingredient          | Persistence: Water/Soil     | Persistence: Air            |
|---------------------|-----------------------------|-----------------------------|
| 1-methylnaphthalene | HIGH                        | HIGH                        |
| 2-methylnaphthalene | HIGH                        | HIGH                        |
| naphthalene         | HIGH (Half-life = 258 days) | LOW (Half-life = 1.23 days) |

#### **Bioaccumulative potential**

| Ingredient          | Bioaccumulation        |
|---------------------|------------------------|
| 1-methylnaphthalene | MEDIUM (LogKOW = 3.87) |
| 2-methylnaphthalene | MEDIUM (LogKOW = 3.86) |
| naphthalene         | HIGH (BCF = 18000)     |

#### Mobility in soil

| Ingredient          | Mobility         |
|---------------------|------------------|
| 1-methylnaphthalene | LOW (KOC = 3038) |
| 2-methylnaphthalene | LOW (KOC = 2976) |
| naphthalene         | LOW (KOC = 1837) |

#### **SECTION 13 DISPOSAL CONSIDERATIONS**

#### Waste treatment methods

Product / Packaging disposal

- ► Containers may still present a chemical hazard/ danger when empty.
- ► Return to supplier for reuse/ recycling if possible.

Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area.

- ▶ DO NOT allow wash water from cleaning or process equipment to enter drains
- It may be necessary to collect all wash water for treatment before disposal.
- Recycle wherever possible or consult manufacturer for recycling options.
- ► Consult State Land Waste Authority for disposal.

#### **SECTION 14 TRANSPORT INFORMATION**

# Labels Required

**Marine Pollutant** 



Land transport (DOT): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

#### **SECTION 15 REGULATORY INFORMATION**

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

1-METHYLNAPHTHALENE(90-12-0) IS FOUND ON THE FOLLOWING REGULATORY LISTS

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GESAMP/EHS Composite List - GESAMP Hazard Profiles
IMO IBC Code Chapter 17: Summary of minimum requirements

IMO MARPOL (Annex II) - List of Noxious Liquid Substances Carried in Bulk

IMO Provisional Categorization of Liquid Substances - List 2: Pollutant only mixtures containing at least 99% by weight of components already assessed by IMO

IMO Provisional Categorization of Liquid Substances - List 3: (Trade-named) mixtures containing at least 99% by weight of components already assessed by IMO, presenting safety hazards

International Air Transport Association (IATA) Dangerous Goods Regulations
International Maritime Dangerous Goods Requirements (IMDG Code)

United Nations Recommendations on the Transport of Dangerous Goods Model Regulations

US - Idaho Toxic Air Pollutants Non- Carcinogenic Increments - Occupational Exposure Limits

US - Massachusetts - Right To Know Listed Chemicals

US - Pennsylvania - Hazardous Substance List

US - Vermont Permissible Exposure Limits Table Z-1-A Transitional Limits for Air Contaminants

US ACGIH Threshold Limit Values (TLV)

US ACGIH Threshold Limit Values (TLV) - Carcinogens

US AIHA Workplace Environmental Exposure Levels (WEELs)

US ATSDR Minimal Risk Levels for Hazardous Substances (MRLs)

US Clean Air Act - Hazardous Air Pollutants

US Coast Guard, Department of Homeland Security Part 153: Ships Carrying Bulk Liquid, Liquefied gas or compressed gas hazardous materials. Table 1 to Part 153 --Summary of Minimum Requirements

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US Department of Transportation (DOT), Hazardous Material Table

US DOE Temporary Emergency Exposure Limits (TEELs)

US EPCRA Section 313 Chemical List

US Postal Service (USPS) Hazardous Materials Table: Postal Service Mailability Guide

US Postal Service (USPS) Numerical Listing of Proper Shipping Names by Identification (ID) Number

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

US TSCA Chemical Substance Inventory - Interim List of Active Substances

#### 2-METHYLNAPHTHALENE(91-57-6) IS FOUND ON THE FOLLOWING REGULATORY LISTS

GESAMP/EHS Composite List - GESAMP Hazard Profiles

IMO IBC Code Chapter 17: Summary of minimum requirements

IMO MARPOL (Annex II) - List of Noxious Liquid Substances Carried in Bulk

IMO Provisional Categorization of Liquid Substances - List 2: Pollutant only mixtures containing at least 99% by weight of components already assessed by IMO

IMO Provisional Categorization of Liquid Substances - List 3: (Trade-named) mixtures containing at least 99% by weight of components already assessed by IMO, presenting safety hazards

International Air Transport Association (IATA) Dangerous Goods Regulations

International Maritime Dangerous Goods Requirements (IMDG Code)

United Nations Recommendations on the Transport of Dangerous Goods Model Regulations US - Idaho Toxic Air Pollutants Non- Carcinogenic Increments - Occupational Exposure Limits

US - Vermont Permissible Exposure Limits Table Z-1-A Transitional Limits for Air Contaminants

US ACGIH Threshold Limit Values (TLV)

US ACGIH Threshold Limit Values (TLV) - Carcinogens

US AIHA Workplace Environmental Exposure Levels (WEELs)

US ATSDR Minimal Risk Levels for Hazardous Substances (MRLs)

US Chemical Footprint Project - Chemicals of High Concern List

US Clean Air Act - Hazardous Air Pollutants

US Coast Guard, Department of Homeland Security Part 153: Ships Carrying Bulk Liquid, Liquefied gas or compressed gas hazardous materials. Table 1 to Part 153 --Summary of Minimum Requirements

US Department of Transportation (DOT), Hazardous Material Table

US DOE Temporary Emergency Exposure Limits (TEELs)

US EPA Carcinogens Listing

US EPCRA Section 313 Chemical List

US Postal Service (USPS) Hazardous Materials Table: Postal Service Mailability Guide
US Postal Service (USPS) Numerical Listing of Proper Shipping Names by Identification (ID)
Number

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

US TSCA Chemical Substance Inventory - Interim List of Active Substances

### NAPHTHALENE(91-20-3) IS FOUND ON THE FOLLOWING REGULATORY LISTS

GESAMP/EHS Composite List - GESAMP Hazard Profiles

IMO IBC Code Chapter 17: Summary of minimum requirements

IMO MARPOL (Annex II) - List of Noxious Liquid Substances Carried in Bulk

IMO Provisional Categorization of Liquid Substances - List 1: Pure or technically pure products IMO Provisional Categorization of Liquid Substances - List 2: Pollutant only mixtures

containing at least 99% by weight of components already assessed by IMO

IMO Provisional Categorization of Liquid Substances - List 3: (Trade-named) mixtures containing at least 99% by weight of components already assessed by IMO, presenting safety hazards

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

International Air Transport Association (IATA) Dangerous Goods Regulations

International Maritime Dangerous Goods Requirements (IMDG Code)

United Nations Recommendations on the Transport of Dangerous Goods Model Regulations

US - Alaska Limits for Air Contaminants

US - California OEHHA/ARB - Chronic Reference Exposure Levels and Target Organs (CRELs)

US - California Permissible Exposure Limits for Chemical Contaminants

US - California Proposition 65 - Carcinogens

US - California Proposition 65 - No Significant Risk Levels (NSRLs) for Carcinogens

US - Hawaii Air Contaminant Limits

US - Idaho - Limits for Air Contaminants

US - Idaho Toxic Air Pollutants Non- Carcinogenic Increments - Occupational Exposure Limits

US - Massachusetts - Right To Know Listed Chemicals

US - Michigan Exposure Limits for Air Contaminants

US - Minnesota Permissible Exposure Limits (PELs)

US - New Jersey Right to Know - Special Health Hazard Substance List (SHHSL): Carcinogens

US - Oregon Permissible Exposure Limits (Z-1)

US - Pennsylvania - Hazardous Substance List

US - Rhode Island Hazardous Substance List

US - Tennessee Occupational Exposure Limits - Limits For Air Contaminants

US - Vermont Permissible Exposure Limits Table Z-1-A Final Rule Limits for Air Contaminants

US - Vermont Permissible Exposure Limits Table Z-1-A Transitional Limits for Air Contaminants

US - Washington Permissible exposure limits of air contaminants

US - Washington Toxic air pollutants and their ASIL, SQER and de minimis emission values

US - Wyoming Toxic and Hazardous Substances Table Z1 Limits for Air Contaminants

US ACGIH Threshold Limit Values (Spanish)

US ACGIH Threshold Limit Values (TLV)

US ACGIH Threshold Limit Values (TLV) - Carcinogens

US AIHA Workplace Environmental Exposure Levels (WEELs)

US ATSDR Minimal Risk Levels for Hazardous Substances (MRLs)

US Chemical Footprint Project - Chemicals of High Concern List

US Clean Air Act - Hazardous Air Pollutants

US Coast Guard, Department of Homeland Security Part 153: Ships Carrying Bulk Liquid, Liquefied gas or compressed gas hazardous materials. Table 1 to Part 153 –Summary of Minimum Requirements

US CWA (Clean Water Act) - List of Hazardous Substances

US CWA (Clean Water Act) - Priority Pollutants

US CWA (Clean Water Act) - Toxic Pollutants

US Department of Transportation (DOT) List of Hazardous Substances and Reportable

Quantities - Hazardous Substances Other Than Radionuclides

US Department of Transportation (DOT) Marine Pollutants - Appendix B

US Department of Transportation (DOT), Hazardous Material Table US DOE Temporary Emergency Exposure Limits (TEELs)

US EPA Carcinogens Listing

US EPCRA Section 313 Chemical List

US National Toxicology Program (NTP) 14th Report Part B. Reasonably Anticipated to be a Human Carcinogen

US NIOSH Recommended Exposure Limits (RELs)

US NIOSH Recommended Exposure Limits (RELs) (Spanish)

US OSHA Permissible Exposure Levels (PELs) - Table Z1

US OSHA Permissible Exposure Limits - Annotated Table Z-1 (Spanish)

US Postal Service (USPS) Hazardous Materials Table: Postal Service Mailability Guide US Postal Service (USPS) Numerical Listing of Proper Shipping Names by Identification (ID)

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

US TSCA Chemical Substance Inventory - Interim List of Active Substances

US TSCA Section 4/12 (b) - Sunset Dates/Status

# DIMETHYLSILOXANE, HYDROXY TERMINATED, ETHOXYL-PROPOXYLATE(64365-23-7) IS FOUND ON THE FOLLOWING REGULATORY LISTS

US List of Active Substances Exempt from the TSCA Inventory Notifications (Active-Inactive) Rule

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

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US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory US TSCA Chemical Substance Inventory - Interim List of Active Substances

### 3-OXAZOLIDINEETHANOL, 2-(1-METHYLETHYL)-, CARBONATE (2:1)(145899-78-1) IS FOUND ON THE FOLLOWING REGULATORY LISTS

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

US TSCA Chemical Substance Inventory - Interim List of Active Substances

#### **Federal Regulations**

# Superfund Amendments and Reauthorization Act of 1986 (SARA)

#### SECTION 311/312 HAZARD CATEGORIES

| 0-0101101101111111111111111111111111111                      |     |
|--|-----|
| Flammable (Gases, Aerosols, Liquids, or Solids)              | No  |
| Gas under pressure   | No  |
| Explosive  | No  |
| Self-heating   | No  |
| Pyrophoric (Liquid or Solid)                                 | No  |
| Pyrophoric Gas   | No  |
| Corrosive to metal   | No  |
| Oxidizer (Liquid, Solid or Gas)                              | No  |
| Organic Peroxide   | No  |
| Self-reactive  | No  |
| In contact with water emits flammable gas                    | No  |
| Combustible Dust   | No  |
| Carcinogenicity  | Yes |
| Acute toxicity (any route of exposure)                       | No  |
| Reproductive toxicity  | No  |
| Skin Corrosion or Irritation                                 | No  |
| Respiratory or Skin Sensitization                            | Yes |
| Serious eye damage or eye irritation                         | Yes |
| Specific target organ toxicity (single or repeated exposure) | No  |
| Aspiration Hazard  | No  |
| Germ cell mutagenicity                                       | No  |
| Simple Asphyxiant  | No  |
| Hazards Not Otherwise Classified                             |     |

# US. EPA CERCLA HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES (40 CFR 302.4)

| Name        | Reportable Quantity in Pounds (lb) | Reportable Quantity in kg |
|-------------|------------------------------------|---------------------------|
| Naphthalene | 100                                | 45.4                      |

#### **State Regulations**

#### US. CALIFORNIA PROPOSITION 65

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm

# US - CALIFORNIA PROPOSITION 65 - CARCINOGENS: LISTED SUBSTANCE

Naphthalene Listed

#### **National Inventory Status**

| National Inventory            | Status   |
|-------------------------------|--|
| Australia - AICS              | No (3-oxazolidineethanol, 2-(1-methylethyl)-, carbonate (2:1))   |
| Canada - DSL                  | No (3-oxazolidineethanol, 2-(1-methylethyl)-, carbonate (2:1))   |
| Canada - NDSL                 | No (Proprietary Trade Secret; naphthalene; dimethylsiloxane, hydroxy terminated, ethoxyl-propoxylate; aspartic acid, N,N'-(methylenedicyclohexanediyl)bis-,ester)  |
| China - IECSC                 | No (3-oxazolidineethanol, 2-(1-methylethyl)-, carbonate (2:1))   |
| Europe - EINEC / ELINCS / NLP | No (3-oxazolidineethanol, 2-(1-methylethyl)-, carbonate (2:1); dimethylsiloxane, hydroxy terminated, ethoxyl-propoxylate; aspartic acid, N,N'-(methylenedicyclohexanediyl)bis-,ester)  |
| Japan - ENCS                  | No (Proprietary Trade Secret; 3-oxazolidineethanol, 2-(1-methylethyl)-, carbonate (2:1); dimethylsiloxane, hydroxy terminated, ethoxyl-propoxylate; aspartic acid, N,N'-(methylenedicyclohexanediyl)bis-,ester)                      |
| Korea - KECI                  | No (2-methylnaphthalene; 1-methylnaphthalene)  |
| New Zealand - NZIoC           | Yes  |
| Philippines - PICCS           | No (Proprietary Trade Secret; 3-oxazolidineethanol, 2-(1-methylethyl)-, carbonate (2:1); aspartic acid, N,N'-(methylenedicyclohexanediyl)bis-,ester)   |
| USA - TSCA                    | Yes  |
| Taiwan - TCSI                 | Yes  |
| Mexico - INSQ                 | No (Proprietary Trade Secret; 3-oxazolidineethanol, 2-(1-methylethyl)-, carbonate (2:1); dimethylsiloxane, hydroxy terminated, ethoxyl-propoxylate; 1-methylnaphthalene; aspartic acid, N,N'-(methylenedicyclohexanediyl)bis-,ester) |
| Vietnam - NCI                 | Yes  |

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| Russia - ARIPS  | No (3-oxazolidineethanol, 2-(1-methylethyl)-, carbonate (2:1))   |  |  |
|-----------------|--|--|--|
| Thailand - TECI | No (2-methylnaphthalene; Proprietary Trade Secret; 3-oxazolidineethanol, 2-(1-methylethyl)-, carbonate (2:1); dimethylsiloxane, hydroxy terminated, ethoxyl-propoxylate; aspartic acid, N,N'-(methylenedicyclohexanediyl)bis-,ester) |  |  |
| Legend:         | Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)                                |  |  |

### **SECTION 16 OTHER INFORMATION**

| Revision Date | 08/23/2019 |
|---------------|------------|
| Initial Date  | 08/03/2019 |

#### CONTACT POINT

\*\*PLEASE NOTE THAT TITANIUM DIOXIDE IS NOT PRESENT IN CLEAR OR NEUTRAL BASES\*\*

#### **SDS Version Summary**

| Version   | Issue Date | Sections Updated |
|-----------|------------|------------------|
| 3.4.1.1.1 | 08/23/2019 | Ingredients      |

#### Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings.

# Definitions and abbreviations

 ${\sf PC-TWA} : {\sf Permissible\ Concentration-Time\ Weighted\ Average}$ 

PC-STEL: Permissible Concentration-Short Term Exposure Limit

IARC: International Agency for Research on Cancer

ACGIH: American Conference of Governmental Industrial Hygienists

STEL: Short Term Exposure Limit

TEEL: Temporary Emergency Exposure Limit。

IDLH: Immediately Dangerous to Life or Health Concentrations

OSF: Odour Safety Factor

NOAEL :No Observed Adverse Effect Level

LOAEL: Lowest Observed Adverse Effect Level

TLV: Threshold Limit Value

LOD: Limit Of Detection

OTV: Odour Threshold Value

BCF: BioConcentration Factors

BEI: Biological Exposure Index

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