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

1.1 Product identifier
- Trade name: Armacell WB Finish

1.2 Relevant identified uses of the substance or mixture and uses advised against
- No further relevant information available.

1.3 Details of the supplier of the Safety Data Sheet
- Manufacturer/Supplier: Mon-Eco Industries, Inc.
  5 Joanna Ct.
  East Brunswick, NJ 08816
  Phone: 732-257-7942

1.4 Emergency telephone number:
- ChemTel Inc.
  (800)255-3924, +1 (813)248-0585

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008
  The following Hazard Statements are applicable only to the EU regulations and not the US GHS regulation: H317, H360Df, H411.
  Classifications listed also are applicable to the OSHA GHS Hazard Communication Standard (29CFR1910.1200).
  The following classifications are applicable only to OSHA (USA) regulations and not the specific CLP regulation: H360.
  Repr. 1 H360: May damage fertility or the unborn child
  - health hazard
  Carc. 1B H350 May cause cancer.
  Repr. 1B H360Df May damage the unborn child. Suspected of damaging fertility.
  - environment
  Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.
  - ! Skin Sens. 1 H317 May cause an allergic skin reaction.

- Classification according to Directive 67/548/EEC or Directive 1999/45/EC
  - T: Toxic
  R45-60-61: May cause cancer. May impair fertility. May cause harm to the unborn child.

(Contd. on page 2)
### Safety Data Sheet

According to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and OSHA GHS

**Trade name:** Armacell WB Finish

<table>
<thead>
<tr>
<th>Xn; Harmful</th>
</tr>
</thead>
<tbody>
<tr>
<td>R62:</td>
</tr>
</tbody>
</table>

- Possible risk of impaired fertility.

<table>
<thead>
<tr>
<th>Xi; Sensitising</th>
</tr>
</thead>
<tbody>
<tr>
<td>R43:</td>
</tr>
</tbody>
</table>

- May cause sensitisation by skin contact.

<table>
<thead>
<tr>
<th>N; Dangerous for the environment</th>
</tr>
</thead>
<tbody>
<tr>
<td>R51/53:</td>
</tr>
</tbody>
</table>

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

#### Information concerning particular hazards for human and environment:

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

#### Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

The classification is in accordance with the latest editions of international substances lists, and is supplemented by information from technical literature and by information provided by the company.

#### Additional information:

There are no other hazards not otherwise classified that have been identified.

0 percent of the mixture consists of component(s) of unknown toxicity.

#### 2.2 Label elements

- **Labelling according to Regulation (EC) No 1272/2008**
  - The following Hazard Statements are applicable only to the EU regulations and not the US GHS regulation: H317, H360Df, H411.
  - The following Hazard Statements are applicable only to the general GHS regulations and not the specific CLP regulation: H360.
  - The product is additionally classified and labelled according to the Globally Harmonized System within the United States (GHS).
  - The product is classified and labelled according to the CLP regulation.

- **Hazard pictograms**
  - This pictogram only applicable for EU regulations. Not for use in the United States (OSHA GHS).

- **Signal word** Danger

- **Hazard-determining components of labelling:**
  - Benzyl butyl phthalate
  - Attapulgite (Palygorskite)
  - Quartz (SiO2)
  - Petroleum Distillates

(Contd. of page 1)
Hazard statements

The following Hazard Statements are applicable only to the EU regulations and not the US GHS regulation: H317, H360Df, H411.

The following Hazard Statements are applicable only to the general GHS regulations and not the specific CLP regulation: H360.

- H360: May damage fertility or the unborn child.
- H317: May cause an allergic skin reaction.
- H350: May cause cancer.
- H360Df: May damage the unborn child. Suspected of damaging fertility.
- H411: Toxic to aquatic life with long lasting effects.

Precautionary statements

The following Precautionary Statements are applicable only to the EU CLP regulations and not the OSHA GHS regulations: P302+P352, P333+P313.

- P280: Wear protective gloves.
- P273: Avoid release to the environment.
- P202: Do not handle until all safety precautions have been read and understood.
- P363: Wash contaminated clothing before reuse.
- P308+P313: IF exposed or concerned: Get medical advice/attention.
- P333+P313: If skin irritation or rash occurs: Get medical advice/attention.
- P302+P352: IF ON SKIN: Wash with plenty of water.
- P501: Dispose of contents/container in accordance with local/regional/national/international regulations.

Additional information:

Restricted to professional users.

Hazard description:

WHMIS-symbols:

D2A - Very toxic material causing other toxic effects

NFPA ratings (scale 0 - 4)

Health = 1
Fire = 0
Reactivity = 0

HMIS-ratings (scale 0 - 4)

Health = *1
Fire = 0
Reactivity = 0

* - Indicates a long term health hazard from repeated or prolonged exposures.

HMIS Long Term Health Hazard Substances

| 13463-67-7 | titanium dioxide |
| 85-68-7 | benzyl butyl phthalate |
| 14808-60-7 | Quartz (SiO2) |
### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

- **Description:** Mixture of substances listed below with nonhazardous additions.

<table>
<thead>
<tr>
<th>Dangerous components:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS: 85-68-7</td>
<td>benzyl butyl phthalate</td>
</tr>
<tr>
<td>EINECS: 201-622-7</td>
<td>T Repr. Cat. 2, 3 R61; Xn R62; N R50/53</td>
</tr>
<tr>
<td>Index number: 607-430-00-3</td>
<td>Repr. 1B, H360Df</td>
</tr>
<tr>
<td></td>
<td>Aquatic Acute 1, H400; Aquatic Chronic 1, H410</td>
</tr>
<tr>
<td>CAS: 9016-45-9</td>
<td>4-nonylphenyl-polyethylene glycol</td>
</tr>
<tr>
<td>NLP: 500-024-6</td>
<td>Xi R36/38; N R51/53</td>
</tr>
<tr>
<td></td>
<td>Aquatic Chronic 2, H411</td>
</tr>
<tr>
<td></td>
<td>Skin Irrit. 2, H315; Eye Irrit. 2, H319</td>
</tr>
<tr>
<td>CAS: 14808-60-7</td>
<td>Quartz (SiO2)</td>
</tr>
<tr>
<td>EINECS: 238-878-4</td>
<td>T R49; Xn R48</td>
</tr>
<tr>
<td></td>
<td>Carc. 1A, H350</td>
</tr>
<tr>
<td></td>
<td>&lt; 1%</td>
</tr>
<tr>
<td>CAS: 12174-11-7</td>
<td>Attapulgite (Palygorskite)</td>
</tr>
<tr>
<td>EC number: 601-805-5</td>
<td>Xn R40</td>
</tr>
<tr>
<td></td>
<td>Carc. 2, H351</td>
</tr>
<tr>
<td></td>
<td>≤ 2,5%</td>
</tr>
<tr>
<td></td>
<td>2,5-10%</td>
</tr>
</tbody>
</table>

- **SVHC**
  - 85-68-7 benzyl butyl phthalate
  - 9016-45-9 4-nonylphenyl-polyethylene glycol

- **Dangerous Components (Alternative Classifications):**
  - CAS: 13463-67-7 titanium dioxide
    - Carc. 2, H351
    - 10-25%

- **Additional information:**
  For the listed ingredients, the identity and exact percentages are being withheld as a trade secret.
  For the wording of the listed risk phrases refer to section 16.

- **Notable Trace Components (≤ 0,1% w/w)**
Trade name: Armacell WB Finish

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**SECTION 4: First aid measures**

- **4.1 Description of first aid measures**
  - **General information:**
    Immediately remove any clothing soiled by the product.
    Take affected persons out into the fresh air.
  - **After inhalation:**
    Supply fresh air; consult doctor in case of complaints.
    Provide oxygen treatment if affected person has difficulty breathing.
  - **After skin contact:**
    Immediately remove any clothing soiled by the product.
    Immediately wash with water and soap and rinse thoroughly.
    Launder contaminated clothing before re-use.
    If skin irritation continues, consult a doctor.
  - **After eye contact:**
    Remove contact lenses if worn.
    Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
  - **After swallowing:**
    Rinse out mouth and then drink plenty of water.
    Do not induce vomiting; call for medical help immediately.

- **4.2 Most important symptoms and effects, both acute and delayed**
  - Headache
  - Dizziness
  - Nausea in case of ingestion.
  - Gastric or intestinal disorders when ingested.
  - Allergic reactions
  - **Hazards**
    - May cause cancer.
    - Suspected of damaging fertility or the unborn child.
4.3 Indication of any immediate medical attention and special treatment needed
Medical supervision for at least 48 hours.
If necessary oxygen respiration treatment.
Treat skin and mucous membrane with antihistamine and corticoid preparations.
Contains reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1). May produce an allergic reaction.

SECTION 5: Firefighting measures

5.1 Extinguishing media
Suitable extinguishing agents:
- Foam
- Water haze or fog
- Fire-extinguishing powder
- Carbon dioxide

For safety reasons unsuitable extinguishing agents: None.

5.2 Special hazards arising from the substance or mixture
Formation of toxic gases is possible during heating or in case of fire.

5.3 Advice for firefighters
Protective equipment:
- Wear self-contained respiratory protective device.
- Wear fully protective suit.

Additional information
Cool endangered receptacles with water spray.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
Particular danger of slipping on leaked/spilled product.
For large spills, use respiratory protective device against the effects of fumes/dust/aerosol.

6.2 Environmental precautions:
Do not allow to enter sewers/ surface or ground water.
Inform respective authorities in case of seepage into water course or sewage system.

6.3 Methods and material for containment and cleaning up:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.
Send for recovery or disposal in suitable receptacles.

6.4 Reference to other sections
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.
SECTION 7: Handling and storage

7.1 Precautions for safe handling
Prevent formation of aerosols.
Use only in well ventilated areas.
Avoid splashes or spray in enclosed areas.
Information about fire - and explosion protection: No special measures required.

7.2 Conditions for safe storage, including any incompatibilities

Storage:
Requirements to be met by storerooms and receptacles:
Avoid storage near extreme heat, ignition sources or open flame.
Information about storage in one common storage facility:
Store away from foodstuffs.
Do not store together with oxidising and acidic materials.
Further information about storage conditions:
Store in cool, dry conditions in well sealed receptacles.
Keep container tightly sealed.

7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

<table>
<thead>
<tr>
<th>Substance</th>
<th>PEL (USA)</th>
<th>REL (USA)</th>
<th>TLV (USA)</th>
</tr>
</thead>
<tbody>
<tr>
<td>13463-67-7 titanium dioxide</td>
<td>Long-term value: 15* mg/m³</td>
<td>See Pocket Guide App. A</td>
<td>Long-term value: 10 mg/m³</td>
</tr>
<tr>
<td>PEL (USA)</td>
<td></td>
<td>See Pocket Guide App. A</td>
<td>withdrawn from NIC</td>
</tr>
<tr>
<td>REL (USA)</td>
<td>Long-term value: 10* 3** mg/m³</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TLV (USA)</td>
<td></td>
<td></td>
<td>Long-term value: 0,05* mg/m³</td>
</tr>
<tr>
<td>EL (Canada)</td>
<td></td>
<td></td>
<td>Long-term value: 0,025* mg/m³</td>
</tr>
<tr>
<td>EV (Canada)</td>
<td></td>
<td></td>
<td>as respirable fraction</td>
</tr>
<tr>
<td>14808-60-7 Quartz (SiO2)</td>
<td>see Quartz listing</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*total dust;**respirable fraction; IARC 2B

Total dust
Trade name: Armacell WB Finish

| EL (Canada) | Long-term value: 0.025 mg/m³  
|            | ACGIH A2; IARC 1  
| EV (Canada) | Long-term value: 0.10* mg/m³  
|            | *respirable fraction |

- **DNELs** No further relevant information available.
- **PNECs** No further relevant information available.
- **Additional information**: The lists valid during the making were used as basis.

### 8.2 Exposure controls
- **Personal protective equipment:**
  - **General protective and hygienic measures:**
    - The usual precautionary measures are to be adhered to when handling chemicals.
    - Keep away from foodstuffs, beverages and feed.
    - Immediately remove all soiled and contaminated clothing.
    - Wash hands before breaks and at the end of work.
    - Store protective clothing separately.
    - Do not inhale gases / fumes / aerosols.
    - Avoid contact with the eyes and skin.
    - Pregnant women should strictly avoid inhalation or skin contact.

- **Respiratory protection:**
  - Use suitable respiratory protective device when high concentrations are present.
  - Use respiratory protection when grinding or cutting material.
  - For spills, respiratory protection may be advisable.
  - NIOSH or EN approved organic vapor respirator equipped with a dust/mist prefilter should be used.

- **Protection of hands:**
  - **Protective gloves**
    - The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
    - Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.
  - **Material of gloves**
    - The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product 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.
  - **Penetration time of glove material**
    - The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
  - **Eye protection:**
    - **Safety glasses**

- **Body protection**: Protective work clothing
- **Limitation and supervision of exposure into the environment**
  - No further relevant information available.
SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- General Information
- Appearance:
  - Form: Liquid
  - Colour: White
- Odour: Mild
- Odour threshold: Not determined.
- pH-value: Not determined.
- Change in condition
  - Melting point/Melting range: Not Determined.
  - Boiling point/Boiling range: >100 °C (>212 °F)
- Flash point: Not applicable.
- Flammability (solid, gaseous): Not applicable.
- Auto/Self-ignition temperature: Not determined.
- Decomposition temperature: Not determined.
- Self-igniting: Product is not self-igniting.
- Danger of explosion: Product does not present an explosion hazard.
- Explosion limits:
  - Lower: Not determined.
  - Upper: Not determined.
- Vapour pressure at 20 °C (68 °F): 23 hPa (17 mm Hg)
- Density at 20 °C (68 °F): 1.4 g/cm³ (11,683 lbs/gal)
- Relative density: Not determined.
- Vapour density at 20 °C (68 °F): > 1 g/cm³ (> 8,345 lbs/gal) (Air= 1)
- Evaporation rate: Not determined.
- Solubility in / Miscibility with water: Dispersible.
- Partition coefficient (n-octanol/water): Not determined.
- Viscosity:
  - Dynamic: Not determined.
  - Kinematic: Not determined.
SECTION 10: Stability and reactivity

- 10.1 Reactivity
- 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided:
  No decomposition if used and stored according to specifications.
- 10.3 Possibility of hazardous reactions
  Toxic fumes may be released if heated above the decomposition point.
  Reacts with strong acids and oxidising agents.
- 10.4 Conditions to avoid
  Keep away from heat and direct sunlight.
  Store away from oxidising agents.
- 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products:
  Carbon monoxide and carbon dioxide
  Nitrogen oxides (NOx)
  Hydrogen chloride (HCl)

SECTION 11: Toxicological information

- 11.1 Information on toxicological effects
- Acute toxicity:
- LD/LC50 values relevant for classification: None.
- Primary irritant effect:
  - on the skin: Slight irritant effect on skin and mucous membranes.
  - on the eye: Slight irritant effect on eyes.
- Sensitisation: Sensitisation possible through skin contact.
- Subacute to chronic toxicity: No further relevant information available.
- Additional toxicological information:
  The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:
  Irritant
  Danger through skin adsorption.
  May cause cancer.
  May damage fertility or the unborn child.
  Sensitisation: May cause an allergic skin reaction.
- Repeated dose toxicity:
  May cause damage to organs through prolonged or repeated exposure.
  Repeated exposures may result in skin and/or respiratory sensitivity.
  May cause cancer.
- CMR effects (carcinogenity, mutagenicity and toxicity for reproduction):
  Carc. 1B, Repr. 1B

(Contd. on page 11)
**SECTION 12: Ecological information**

- **12.1 Toxicity**
  - Aquatic toxicity: Toxic for aquatic organisms
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
  - Remark: Toxic for fish
- **Additional ecological information:**
  - General notes:
    - Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
    - Do not allow product to reach ground water, water course or sewage system, even in small quantities.
    - Danger to drinking water if even extremely small quantities leak into the ground.
    - Also poisonous for fish and plankton in water bodies.
    - Toxic for aquatic organisms
    - Due to available data on eliminability/decomposition and bioaccumulation potential prolonged term damage of the environment can not be excluded.
- **12.5 Results of PBT and vPvB assessment**
  - PBT: Not applicable.
  - vPvB: Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

**SECTION 13: Disposal considerations**

- **13.1 Waste treatment methods**
  - **Recommendation**
    - Must not be disposed together with household garbage. Do not allow product to reach sewage system.
    - Can be burned with household garbage after consulting with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.
    - The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes. Residual materials should be treated as hazardous.
- **Uncleaned packaging:**
  - **Recommendation:** Disposal must be made according to official regulations.

**SECTION 14: Transport information**

- **14.1 UN-Number**
  - DOT: Not Regulated
  - ADR, IMDG, IATA: UN3082
14.2 UN proper shipping name

- DOT: Not Regulated
- ADR: 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (benzyl butyl phthalate)
- IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (benzyl butyl phthalate, chlorothalonil (ISO)), MARINE POLLUTANT
- IATA: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (benzyl butyl phthalate)

14.3 Transport hazard class(es)

- DOT: Not Regulated
- ADR: Class 9 (M6) Miscellaneous dangerous substances and articles.
- IMDG, IATA: Class 9 Miscellaneous dangerous substances and articles.

14.4 Packing group

- DOT: Not Regulated
- ADR, IMDG, IATA: III

14.5 Environmental hazards:

- Marine pollutant: Yes
- Special marking (ADR): Symbol (fish and tree)
- Special marking (IATA): Symbol (fish and tree)
- 14.6 Special precautions for user: Warning: Miscellaneous dangerous substances and articles.
- Danger code (Kemler): 90
- EMS Number: F-A,S-F

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable.
Trade name: Armacell WB Finish

- **Transport/Additional information:**
  - ADR
  - Limited quantities (LQ): 5L
  - Excepted quantities (EQ): Code: E1
    - Maximum net quantity per inner packaging: 30 ml
    - Maximum net quantity per outer packaging: 1000 ml
  - Transport category: 3
  - Tunnel restriction code: E

- **IMDG**
  - Limited quantities (LQ): 5L
  - Excepted quantities (EQ): Code: E1
    - Maximum net quantity per inner packaging: 30 ml
    - Maximum net quantity per outer packaging: 1000 ml

- **UN "Model Regulation":**
  - UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (benzyl butyl phthalate), 9, III

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
  - **United States (USA)**
    - **SARA**
      - Section 355 (extremely hazardous substances):
        - None of the ingredients are listed.
      - Section 313 (Specific toxic chemical listings):
        - None of the ingredients are listed.
    - **TSCA (Toxic Substances Control Act):**
      - All ingredients are listed.
  - **Proposition 65 (California):**
    - **Chemicals known to cause cancer:**
      - Reference to Attapulgite is based on unbound respirable particles and is not generally applicable to product as supplied.
      - Reference to Titanium Dioxide is based on unbound respirable particles and is not generally applicable to product as supplied.
      - Reference to Crystalline Silica and/or Quartz is based on unbound respirable particles and is not generally applicable to product as supplied.
    - 13463-67-7 titanium dioxide
    - 12174-11-7 Attapulgite (Palygorskite)
    - 14808-60-7 Quartz (SiO2)
    - 1897-45-6 chlorothalonil (ISO)

- **Chemicals known to cause reproductive toxicity for females:**
  - None of the ingredients are listed.
### Chemicals known to cause reproductive toxicity for males:
None of the ingredients are listed.

### Chemicals known to cause developmental toxicity:
- 85-68-7 benzyl butyl phthalate

### Carcinogenic Categories

#### EPA (Environmental Protection Agency)
- 85-68-7 benzyl butyl phthalate: C

#### IARC (International Agency for Research on Cancer)
- 13463-67-7 titanium dioxide: 2B
- 85-68-7 benzyl butyl phthalate: 3
- 12174-11-7 Attapulgite (Palygorskite): 2B
- 14808-60-7 Quartz (SiO2): 1

#### TLV (Threshold Limit Value established by ACGIH)
- 13463-67-7 titanium dioxide: A4
- 14808-60-7 Quartz (SiO2): A2

#### NIOSH-Ca (National Institute for Occupational Safety and Health)
- 13463-67-7 titanium dioxide
- 14808-60-7 Quartz (SiO2)

### Canada

#### Canadian Domestic Substances List (DSL)
All ingredients are listed.

#### Canadian Ingredient Disclosure list (limit 0.1%)
None of the ingredients are listed.

#### Canadian Ingredient Disclosure list (limit 1%)
- 85-68-7 benzyl butyl phthalate

### Information about limitation of use:
Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.

### Other regulations, limitations and prohibitive regulations
This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

### Substances of very high concern (SVHC) according to REACH, Article 57
- 85-68-7 benzyl butyl phthalate
- 9016-45-9 4-nonylphenyl-polyethylene glycol

### 15.2 Chemical safety assessment:
A Chemical Safety Assessment has not been carried out.
### SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

#### Relevant phrases

- **H315** Causes skin irritation.
- **H319** Causes serious eye irritation.
- **H350** May cause cancer.
- **H351** Suspected of causing cancer.
- **H360Df** May damage the unborn child. Suspected of damaging fertility.
- **H400** Very toxic to aquatic life.
- **H410** Very toxic to aquatic life with long lasting effects.
- **H411** Toxic to aquatic life with long lasting effects.
- **R36/38** Irritating to eyes and skin.
- **R40** Limited evidence of a carcinogenic effect.
- **R48** Danger of serious damage to health by prolonged exposure.
- **R49** May cause cancer by inhalation.
- **R50/53** Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- **R51/53** Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- **R61** May cause harm to the unborn child.
- **R62** Possible risk of impaired fertility.

#### Abbreviations and acronyms:

- **ADR:** Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
- **IMDG:** International Maritime Code for Dangerous Goods
- **DOT:** US Department of Transportation
- **IATA:** International Air Transport Association
- **GHS:** Globally Harmonised System of Classification and Labelling of Chemicals
- **ACGIH:** American Conference of Governmental Industrial Hygienists
- **EINECS:** European Inventory of Existing Commercial Chemical Substances
- **ELINCS:** European List of Notified Chemical Substances
- **CAS:** Chemical Abstracts Service (division of the American Chemical Society)
- **NFPA:** National Fire Protection Association (USA)
- **HMIS:** Hazardous Materials Identification System (USA)
- **WHMIS:** Workplace Hazardous Materials Information System (Canada)
- **DNEL:** Derived No-Effect Level (REACH)
- **PNEC:** Predicted No-Effect Concentration (REACH)
- **LC50:** Lethal concentration, 50 percent
- **LD50:** Lethal dose, 50 percent
- **Skin Irrit. 2:** Skin corrosion/irritation, Hazard Category 2
- **Eye Irrit. 2:** Serious eye damage/eye irritation, Hazard Category 2
- **Skin Sens. 1:** Sensitisation - Skin, Hazard Category 1
- **Carc. 1A:** Carcinogenicity, Hazard Category 1A
- **Carc. 1B:** Carcinogenicity, Hazard Category 1B
- **Carc. 2:** Carcinogenicity, Hazard Category 2
- **Repr. 1B:** Reproductive toxicity, Hazard Category 1B
- **Aquatic Acute 1:** Hazardous to the aquatic environment - AcuteHazard, Category 1
- **Aquatic Chronic 1:** Hazardous to the aquatic environment - Chronic Hazard, Category 1
- **Aquatic Chronic 2:** Hazardous to the aquatic environment - Chronic Hazard, Category 2

#### Sources

SDS Prepared by: ChemTel Inc.
Safety Data Sheet
according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and
OSHA GHS

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