Calcium Hydroxide (Slaked Lime, Hydrated Lime)

SDS Preparation Date (mm/dd/yyyy): 12/11/2015

SAFETY DATA SHEET

SECTION 1. IDENTIFICATION

Product identifier used on the label

: Calcium Hydroxide (Slaked Lime, Hydrated Lime)

Product Code(s)

: Not available.

Recommended use of the chemical and restrictions on use

: Used in various industrial processes including chemicals; dyes; food; glass / ceramics; metals; petroleum and process water treatment.

Use pattern: Professional use only

Recommended restrictions: None known.

Chemical family

: Inorganic acid

Name, address, and telephone number of the supplier:

Comet Chemical Company Ltd.
3463 Thomas Street
Innisfill, ON, Canada
L9S 3W4

Supplier's Telephone # : 705-436-5580

24 Hr. Emergency Tel # : TERRRAPURE ENVIRONMENTAL : 800-567-7455

SECTION 2. HAZARDS IDENTIFICATION

Classification of the chemical

White powder Odorless.

This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).

Hazard classification :

Eye damage/irritation: Category 1
Skin corrosion/irritation: Category 1
Specific Target Organ Toxicity, Single Exposure -Category 3 (respiratory)

Label elements

Hazard pictogram(s)

Signal Word

DANGER!
SAFETY DATA SHEET

Causes severe skin burns and eye damage.
May cause respiratory irritation.

Hazard statement(s)

Wash thoroughly after handling.
Do not breathe dust or fume.
Wear protective gloves/clothing and eye/face protection.

Precautionary statement(s)

If swallowed: Rinse mouth. Do NOT induce vomiting.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
Wash contaminated clothing before reuse.
If inhaled: Remove person to fresh air and keep comfortable for breathing.
Immediately call a POISON CENTER or doctor/physician.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
Continue rinsing.
Immediately call a POISON CENTER or doctor/physician.
Absorb spillage to prevent material damage.

Store locked up.
Store in a well-ventilated place. Keep container tightly closed.

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

Other hazards

Other hazards which do not result in classification:

Ingestion may cause severe irritation to the mouth, throat and stomach. Contact with metals may release small amounts of flammable hydrogen gas. May be corrosive to metals. Prolonged skin contact may cause dermatitis (rash), characterized by red, dry, itching skin. Prolonged or repeated inhalation of fumes or vapours, may cause chronic lung effects, such as bronchitis, and tooth enamel erosion. Chronic skin contact with low concentrations may cause dermatitis.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Common name and synonym</th>
<th>CAS #</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium hydroxide</td>
<td>Slaked lime</td>
<td>1305-62-0</td>
<td>100.00</td>
</tr>
</tbody>
</table>

SECTION 4. FIRST-AID MEASURES

Description of first aid measures

Ingestion : Do NOT induce vomiting. Have victim rinse mouth with water, then give one to two glasses of water to drink. Seek immediate medical attention/advice. Never give anything by mouth if victim is unconscious.

Inhalation : Immediately remove person to fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen by qualified medical personnel only. Seek immediate medical attention/advice.

Skin contact : Take off all contaminated clothing immediately. Immediately flush skin with gently flowing, running water for at least 20 minutes. Do not rub area of contact. Cover wound with sterile dressing. Seek immediate medical attention/advice. Wash contaminated clothing before reuse. Leather and shoes that have been contaminated with the solution may need to be destroyed.
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Eye contact
: Immediately flush eyes with running water for at least 20 minutes. Protect unharmed eye. Seek immediate medical attention/advice.

Most important symptoms and effects, both acute and delayed
: May cause serious eye irritation or damage. Symptoms may include redness, pain, tearing and conjunctivitis. May cause irreversible eye damage.
Severe skin irritant. Prolonged contact, such as when trapped against the skin under clothing or jewelry, may result in severe corrosive burns. Symptoms may include blistering, ulcerations and scarring.
May cause severe irritation and corrosive damage in the mouth, throat and stomach. Symptoms may include severe abdominal pain, vomiting, burns and bleeding.
Inhalation can cause severe respiratory irritation. Symptoms may include coughing, choking and wheezing. Could result in pulmonary edema (fluid accumulation). Symptoms of pulmonary edema (chest pain, shortness of breath) may be delayed.
Prolonged or repeated inhalation of fumes or vapours, may cause chronic lung effects, such as bronchitis, and tooth enamel erosion.

Indication of any immediate medical attention and special treatment needed
: Immediate medical attention is required. Causes burns. Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing media
Suitable extinguishing media
: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water with caution. Contact with water will generate considerable heat.

Unsuitable extinguishing media
: Do not use a solid water stream as it may scatter and spread fire.

Special hazards arising from the substance or mixture / Conditions of flammability
: Not considered flammable. Burning produces obnoxious and toxic fumes. Contact with metals may release small amounts of flammable hydrogen gas. Reacts violently with a wide variety of organic and inorganic chemicals including alcohol, carbides, chlorates, picrates, nitrates and metals. Contact with water will generate considerable heat.

Flammability classification (OSHA 29 CFR 1910.106)
: Non-flammable.

Hazardous combustion products
: Carbon dioxide and carbon monoxide. Calcium oxides

Special protective equipment and precautions for firefighters
Protective equipment for fire-fighters
: Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Special fire-fighting procedures
: Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. A full-body chemical resistant suit should be worn. Move containers from fire area if safe to do so. Water spray may be useful in cooling equipment exposed to heat and flame. Dike for water control. Do not allow run-off from fire fighting to enter drains or water courses.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures
: All persons dealing with clean-up should wear the appropriate protective equipment including self-contained breathing apparatus. Keep all other personnel upwind and away from the spill/release. Restrict access to area until completion of clean-up. Refer to Section 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION, for additional information on acceptable personal protective equipment.
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Environmental precautions: Do not allow material to contaminate ground water system. For large spills, dike the area to prevent spreading.

Methods and material for containment and cleaning up:
- Remove all sources of ignition. Ventilate area of release. Stop spill or leak at source if safely possible. Dike for water control. Sweep up or vacuum up spillage and collect in suitable container for disposal. Contact the proper local authorities.

Special spill response procedures:
- In case of transportation accident, contact TERRAPURE ENVIRONMENTAL at 1-800-567-7455.

US CERCLA Reportable quantity (RQ): None.

Use in a well-ventilated area. Wear protective gloves/clothing and eye/face protection. See Section 8 for additional personal protection advice when handling this product. Do not ingest. Do not breathe dust or fume. Avoid contact with skin, eyes and clothing. Keep away from extreme heat and flame. Keep away from bases, metals and other incompatibles. Keep container tightly closed when not in use. Keep only in original container. During preparation or dilution, always add liquid slowly to water and with constant stirring.

Precautions for safe handling:

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling:
- Use in a well-ventilated area. Wear protective gloves/clothing and eye/face protection. See Section 8 for additional personal protection advice when handling this product. Do not ingest. Do not breathe dust or fume. Avoid contact with skin, eyes and clothing. Keep away from extreme heat and flame. Keep away from bases, metals and other incompatibles. Keep container tightly closed when not in use. Keep only in original container. During preparation or dilution, always add liquid slowly to water and with constant stirring.

Conditions for safe storage:
- Store in a cool, dry, well-ventilated area. Store locked up. Store away from incompatibles and out of direct sunlight. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. Store in corrosion-resistant containers. Keep only in original container.

Incompatible materials:
- Aluminum; Acids; Phosphorous; Tin; Zinc; Acetone; Chloroform; Sugars.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>STEL</td>
</tr>
<tr>
<td>Calcium hydroxide</td>
<td>TWA: 5 mg/m³</td>
<td>STEL: N/Av</td>
</tr>
</tbody>
</table>

Exposure controls:

Ventilation and engineering measures:
- Use general or local exhaust ventilation to maintain air concentrations below recommended exposure limits.

Respiratory protection:
- If the TLV is exceeded, a NIOSH/MSHA-approved respirator is advised. Confirmation of which type of respirator is most suitable for the intended application should be obtained from respiratory protection suppliers. Respirators should be selected based on the form and concentration of contaminants in air, and in accordance with OSHA (29 CFR 1910.134) or CSA Z94.4-02.

Skin protection:
- Wear chemically protective gloves (impervious), boots, aprons, and gauntlets to prevent prolonged or repeated skin contact. Advice should be sought from glove suppliers.

Eye / face protection:
- Chemical splash goggles must be worn when handling this material. A full face shield may also be necessary.
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Other protective equipment: Other equipment may be required depending on workplace standards. An eyewash station and safety shower should be made available in the immediate working area.

General hygiene considerations:
- Do not breathe dust or fume. Avoid contact with skin, eyes and clothing. Do not eat, drink, smoke or use cosmetics while working with this product. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities. Remove and wash contaminated clothing before re-use. Do not take contaminated clothing home.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** White powder

**Odour:** Odorless.

**Odour threshold:** N/Av

**pH:** 12.5-12.7 (Saturated Solution)

**Melting/Freezing point:** Decomposes before melting.

**Initial boiling point and boiling range:**

**Flash point:** Not applicable.

**Flashpoint (Method):** Not applicable.

**Evaporation rate (BuAe = 1):** Not applicable.

**Flammability (solid, gas):** Not applicable.

**Lower flammable limit (% by vol.):** Not applicable.

**Upper flammable limit (% by vol.):** Not applicable.

**Oxidizing properties:** None known.

**Explosive properties:** Not explosive

**Vapour pressure:** zero

**Vapour density:** Not applicable.

**Relative density / Specific gravity:** 2.25

**Solubility in water:** Slightly soluble.

**Other solubility(ies):** Soluble in acids (with evolution of much heat), glycerol and ammonia salt solutions; insoluble in ethanol.

**Partition coefficient: n-octanol/water or Coefficient of water/oil distribution:** Not applicable.

**Auto-ignition temperature:** Not applicable.

**Decomposition temperature:** 580°C (1076°F)

**Viscosity:** N/Av

**Volatile (% by weight):** Not available.

**Volatile organic Compounds (VOC's):** Not available.

**Absolute pressure of container:** N/Av

**Flame projection length:** N/Av

**Other physical/chemical comments:** None known or reported by the manufacturer.

SECTION 10. STABILITY AND REACTIVITY

**Reactivity:** Not normally reactive. May be corrosive to metals.
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Chemical stability:
Stable under the recommended storage and handling conditions prescribed.

Possibility of hazardous reactions:
Hazardous polymerization does not occur. Contact with metals may release small amounts of flammable hydrogen gas.

Conditions to avoid:
Avoid heat and open flame. Ensure adequate ventilation, especially in confined areas. Avoid contact with incompatible materials.

Incompatible materials:
Aluminum; Acids; Phosphorous; Tin; Zinc; Acetone; Chloroform; Sugars.

Hazardous decomposition products:
Corrosive calcium oxide fumes may be generated by thermal decomposition at temperatures of 580 deg C and above.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

Routes of entry
- Inhalation: YES
- Skin & eye: YES
- Ingestion: YES
- Skin absorption: NO

Potential Health Effects:

Signs and symptoms of short-term (acute) exposure

<table>
<thead>
<tr>
<th>Sign and symptoms</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inhalation</td>
<td>May cause severe irritation to the nose, throat and respiratory tract. Symptoms may include coughing, choking and wheezing. Could result in pulmonary edema (fluid accumulation). Symptoms of pulmonary edema (chest pain, shortness of breath) may be delayed.</td>
</tr>
<tr>
<td>Ingestion</td>
<td>May be harmful if swallowed. May cause severe irritation and corrosive damage in the mouth, throat and stomach. Symptoms may include severe abdominal pain, vomiting, burns and bleeding.</td>
</tr>
<tr>
<td>Skin</td>
<td>This material is classified as hazardous under OSHA regulations (29CFR 1910.1200) (Hazardcom 2012). Classification: Skin corrosion/irritation: Category 1. Causes severe skin burns. Causes severe irritation. Prolonged contact, such as when trapped against the skin under clothing or jewelry, may result in severe corrosive burns. Symptoms may include blistering, ulcerations and scarring.</td>
</tr>
<tr>
<td>Eyes</td>
<td>This material is classified as hazardous under OSHA regulations (29CFR 1910.1200) (Hazardcom 2012). Classification: Eye damage/irritation: Category 1. Causes serious eye damage. Symptoms may include severe pain, tearing, redness, swelling and blurred vision. Contact may lead to permanent injury and blindness.</td>
</tr>
</tbody>
</table>

Potential Chronic Health Effects:
Chronic skin contact with low concentrations may cause dermatitis. Prolonged or repeated inhalation of fumes or vapours, may cause chronic lung effects, such as bronchitis, and tooth enamel erosion.

Mutagenicity:
Not expected to be mutagenic.

Carcinogenicity:
No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.

Reproductive effects & Teratogenicity:
This product is not expected to cause reproductive or developmental effects.

Sensitization to material:
Not expected to be a skin or respiratory sensitizer.
Calcium Hydroxide (Slaked Lime, Hydrated Lime)
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Specific target organ effects:
This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015). Classification: Specific Target Organ Toxicity, Single Exposure -Category 3 (respiratory)
May cause respiratory irritation.

Not classified as specific target organ toxicity-repeated exposure.

Medical conditions aggravated by overexposure:
Pre-existing skin, eye and respiratory disorders.

Synergistic materials:
Not available.

Toxicological data:
See below for toxicological data on the substance.

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>LC₅₀(4hr) inh. rat</th>
<th>LD₅₀ (Oral, rat)</th>
<th>LD₅₀ (Rabbit, dermal)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium hydroxide</td>
<td>N/Av</td>
<td>7340 mg/kg</td>
<td>&gt; 2500 mg/kg</td>
</tr>
</tbody>
</table>

Other important toxicological hazards:
None known or reported by the manufacturer.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity:
The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters. See data for individual ingredient ecotoxicity data.

Ecotoxicity data:

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS No</th>
<th>Toxicity to Fish</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>LC₅₀ / 96h</td>
</tr>
<tr>
<td>Calcium hydroxide</td>
<td>1305-62-0</td>
<td>50.6 mg/L Rainbow trout</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NOEC / 21 day</td>
</tr>
<tr>
<td>Calcium hydroxide</td>
<td>1305-62-0</td>
<td>N/Av</td>
</tr>
<tr>
<td></td>
<td></td>
<td>M Factor</td>
</tr>
<tr>
<td>Calcium hydroxide</td>
<td>1305-62-0</td>
<td>None.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS No</th>
<th>Toxicity to Daphnia</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>EC₅₀ / 48h</td>
</tr>
<tr>
<td>Calcium hydroxide</td>
<td>1305-62-0</td>
<td>49.1 mg/L (Daphnia magna)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NOEC / 21 day</td>
</tr>
<tr>
<td>Calcium hydroxide</td>
<td>1305-62-0</td>
<td>N/Av</td>
</tr>
<tr>
<td></td>
<td></td>
<td>M Factor</td>
</tr>
<tr>
<td>Calcium hydroxide</td>
<td>1305-62-0</td>
<td>None.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS No</th>
<th>Toxicity to Algae</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>EC₅₀ / 96h or 72h</td>
</tr>
<tr>
<td>Calcium hydroxide</td>
<td>1305-62-0</td>
<td>184.57 mg/L/72hr (Green algae)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NOEC / 96h or 72h</td>
</tr>
<tr>
<td>Calcium hydroxide</td>
<td>1305-62-0</td>
<td>N/Av</td>
</tr>
<tr>
<td></td>
<td></td>
<td>M Factor</td>
</tr>
<tr>
<td>Calcium hydroxide</td>
<td>1305-62-0</td>
<td>None.</td>
</tr>
</tbody>
</table>

Persistence and degradability:
Biodegradation is not applicable to inorganic materials.

Bioaccumulation potential:
No data is available on the product itself.
SAFETY DATA SHEET

<table>
<thead>
<tr>
<th>Components</th>
<th>Partition coefficient n-octanol/ater (log Kow)</th>
<th>Bioconcentration factor (BCF)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium hydroxide (CAS 1305-62-0)</td>
<td>N/Ap</td>
<td>N/Ap</td>
</tr>
</tbody>
</table>

**Mobility in soil**: No data is available on the product itself.

**Other Adverse Environmental effects**: No additional information.

**SECTION 13. DISPOSAL CONSIDERATIONS**

**Handling for Disposal**: Handle waste according to recommendations in Section 7. Empty containers retain residue (liquid and/or vapour) and can be dangerous.

**Methods of Disposal**: Dispose in accordance with all applicable federal, state, provincial and local regulations.

**RCRA**: If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method. For disposal of unused or waste material, check with local, state and federal environmental agencies.

**SECTION 14. TRANSPORTATION INFORMATION**

<table>
<thead>
<tr>
<th>Regulatory Information</th>
<th>UN Number</th>
<th>UN proper shipping name</th>
<th>Transport hazard class(es)</th>
<th>Packing Group</th>
<th>Label</th>
</tr>
</thead>
<tbody>
<tr>
<td>49CFR/DOT</td>
<td>None.</td>
<td>Not regulated.</td>
<td>not regulated</td>
<td>none</td>
<td></td>
</tr>
<tr>
<td>TDG</td>
<td>None.</td>
<td>Not regulated.</td>
<td>not regulated</td>
<td>none</td>
<td></td>
</tr>
<tr>
<td>ICAO/IATA</td>
<td>None.</td>
<td>Not regulated.</td>
<td>not regulated</td>
<td>none</td>
<td></td>
</tr>
<tr>
<td>IMDG</td>
<td>None.</td>
<td>Not regulated.</td>
<td>not regulated</td>
<td>none</td>
<td></td>
</tr>
</tbody>
</table>

**Special precautions for user**: Appropriate advice on safety must accompany the package.
SAFETY DATA SHEET

Environmental hazards

This product does not meet the criteria for an environmentally hazardous mixture, according to the IMDG Code. See Section 12 for more environmental information.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable.

SECTION 15 - REGULATORY INFORMATION

US Federal Information:
Components listed below are present on the following U.S. Federal chemical lists:

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS #</th>
<th>TSCA Inventory</th>
<th>CERCLA Reportable Quantity(RQ) (40 CFR 117.302):</th>
<th>SARA TITLE III: Sec. 302, Extremely Hazardous Substance, 40 CFR 355:</th>
<th>SARA TITLE III: Sec. 313, 40 CFR 372, Specific Toxic Chemical</th>
<th>Toxic Chemical</th>
<th>de minimus Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium hydroxide</td>
<td>1305-62-0</td>
<td>Yes</td>
<td>N/Av</td>
<td>No</td>
<td>N/A</td>
<td>Yes No</td>
<td></td>
</tr>
</tbody>
</table>

SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes: Acute Health Hazard. Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds for the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

US State Right to Know Laws:
The following chemicals are specifically listed by individual States:

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS #</th>
<th>California Proposition 65</th>
<th>State “Right to Know” Lists</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium hydroxide</td>
<td>1305-62-0</td>
<td>No</td>
<td>CA Yes MA Yes MN Yes NJ Yes PA Yes RI Yes</td>
</tr>
</tbody>
</table>

Canadian Information:
Canadian Environmental Protection Act (CEPA) information: All ingredients listed appear on the Domestic Substances List (DSL).

WHMIS information: Refer to Section 2 for a WHMIS Classification for this product.

International Information:
Components listed below are present on the following International Inventory list:

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS #</th>
<th>European EINECs</th>
<th>Australia AICS</th>
<th>Philippines PICCS</th>
<th>Japan ENCS</th>
<th>Korea KECIKECL</th>
<th>China IECSC</th>
<th>NewZealand IOC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium hydroxide</td>
<td>1305-62-0</td>
<td>215-137-3</td>
<td>Present</td>
<td>Present</td>
<td>(1)-181</td>
<td>KE-04518</td>
<td>Present</td>
<td>HSR002925, HSC000322</td>
</tr>
</tbody>
</table>

SECTION 16. OTHER INFORMATION

Legend

ACGIH: American Conference of Governmental Industrial Hygienists
CA: California
CAS: Chemical Abstract Services
Safetyp Data Sheet

CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980
CFR: Code of Federal Regulations
DOT: Department of Transportation
EPA: Environmental Protection Agency
HMIS: Hazardous Materials Identification System
HSDB: Hazardous Substances Data Bank
IARC: International Agency for Research on Cancer
Inh: Inhalation
IUCLID: International Uniform Chemical Information Database
MA: Massachusetts
MN: Minnesota
MSHA: Mine Safety and Health Administration
N/Ap: Not Applicable
N/Av: Not Available
NFPA: National Fire Protection Association
NIOSH: National Institute of Occupational Safety and Health
NJ: New Jersey
NTP: National Toxicology Program
OSHA: Occupational Safety and Health Administration
PA: Pennsylvania
PEL: Permissible exposure limit
RCRA: Resource Conservation and Recovery Act
RI: Rhode Island
RTECS: Registry of Toxic Effects of Chemical Substances
SARA: Superfund Amendments and Reauthorization Act
STEL: Short Term Exposure Limit
TDG: Canadian Transportation of Dangerous Goods Act & Regulations
TLV: Threshold Limit Values
TWA: Time Weighted Average
WHMIS: Workplace Hazardous Materials Identification System

References:
Canadian Centre for Occupational Health and Safety, CCInfoWeb Databases, 2015 (Chempendium, RTECs, HSDB, INCHEM).
European Chemicals Agency, Classification Legislation, 2015
Material Safety Data Sheet from manufacturer

Preparation Date (mm/dd/yyyy):
12/11/2015

Other special considerations for handling:
Provide adequate information, instruction and training for operators.
SAFETY DATA SHEET

DISCLAIMER

This Safety Data Sheet was prepared by ICC The Compliance Center Inc using information provided by / obtained from Comet Chemical Company Ltd. and CCOHS’ Web Information Service. The information in the Safety Data Sheet is offered for your consideration and guidance when exposed to this product. ICC The Compliance Center Inc and Comet Chemical Company Ltd. expressly disclaim all expressed or implied warranties and assume no responsibilities for the accuracy or completeness of the data contained herein. The data in this SDS does not apply to use with any other product or in any other process.

This Safety Data Sheet may not be changed, or altered in any way without the expressed knowledge and permission of ICC The Compliance Center Inc and Comet Chemical Company Ltd.

END OF DOCUMENT