



Safety Data Sheet

Section 01 - Identification

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|--|---|
| Product Identifier | ClearHib 164 |
| Other Means of Identification | None |
| Product Use and Restrictions on Use | Scale and corrosion inhibition |
| Initial Supplier Identifier | ClearTech Industries Inc. 1500 Quebec Avenue Saskatoon, SK. Canada S7K 1V7 |
| Prepared By | ClearTech Industries Inc. Technical Writer Phone: 1 (800) 387-7503 |
| 24-Hour Emergency Phone | Phone: 1 (306) 664 – 2522 |

Section 02 - Hazard Identification

GHS-Classification

This product has been assessed in accordance with the Hazardous Products Regulations and is not classified as a hazardous substance or mixture.

Section 03 - Composition / Information on Ingredients

| Chemical Name | CAS Number | Weight % | Unique Identifiers |
|---------------------------|-------------------|-----------------|---------------------------|
| Phosphino-Carboxylic Acid | Not Available | | |

Section 04 - First Aid Measures

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| Inhalation | If symptoms are experienced, remove victim to fresh air. Seek medical attention if symptoms persist. |
| Skin Contact / Absorption | Remove contaminated clothing. Rinse skin with soap and water. Seek medical attention if irritation occurs or persists. |
| Eye Contact | Flush immediately with water for at least 30 minutes. Forcibly hold eyelids apart to ensure complete irrigation of the eye tissue. Seek medical attention if irritation persists. |
| Ingestion | No adverse effects are expected. If you feel unwell or concerned, seek medical attention. |
| Additional Information | Not Available |
| Most Important Symptoms and Effects, Both Acute and Delayed | Not Available |

Section 05 - Fire Fighting Measures

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| Suitable Extinguishing Media | Use extinguishing media appropriate for surrounding fire. |
| Unsuitable Extinguishing Media | Not Available |
| Specific Hazards Arising From the Chemical | Decomposition of product may produce nitrogen and carbon oxides. |
| Special Protective Equipment and Precautions for Fire-Fighters | Wear NIOSH-approved self-contained breathing apparatus and protective clothing. |
| Further Information | Not Available |

Section 06 - Accidental Release Measures

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| Personal Precautions / Protective Equipment / Emergency Procedures | Wear appropriate personal protective equipment. Ventilate area. Only enter area with PPE. Stop or reduce leak if safe to do so. |
| Environmental Precautions | Prevent material from entering sewers. |
| Methods and Materials for Containment and Cleaning Up | Clean up spill with non-reactive absorbent and place in suitable, labelled containers for proper disposal. |

Section 07 - Handling and Storage

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| Precautions for Safe Handling | Use proper equipment for lifting and transporting all containers. Use sensible industrial hygiene and housekeeping practices. Wash thoroughly after handling. Avoid all situations that could lead to harmful exposure. |
| Conditions for Safe Storage | Store at temperatures 0-35°C and ensure containers are closed when product is not in use. Avoid contact with water. Product shelf life expected to be 24 months when storage requirements are followed. |
| Incompatibilities | Oxidizers. |

Section 08 - Exposure Controls and Personal Protection

Exposure Limit(s)

| Component | Regulation | Type of Listing | Value |
|--------------|---------------|-----------------|-------|
| ClearHib 164 | Not Available | | |

Engineering Control(s)

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|---------------------------------|---|
| Ventilation Requirements | Mechanical ventilation (dilution or local exhaust), process or personnel enclosure and control of process conditions must be provided in accordance with all fire codes and regulatory requirements. Supply sufficient replacement air to make up for air removed by exhaust systems. |
| Other | Emergency shower and eyewash must be available and tested in accordance with regulations and be in close proximity. |

Protective Equipment

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| Eyes/Face | Chemical safety goggles should be worn while product is being handled. |
| Hand Protection | No specific requirement, but it is good practice to prevent skin contact by wearing impervious gloves of chemical resistance. |

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| Skin and Body Protection | No specific requirement, but it is good practice to prevent skin contact by wearing body suits, aprons and/or coveralls. No special footwear is required other than what is mandated at place of work. |
| Respiratory Protection | Dust safety masks are recommended where concentration of total dust is more than 10mg/m ³ . |
| Thermal Hazards | Not Available |

Section 09 - Physical and Chemical Properties

Appearance

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|------------------------|-----------------|
| Physical State | Solid, granules |
| Colour | White |
| Odour | Odourless |
| Odour Threshold | Not Available |

Property

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|--|-------------------|
| pH | 6 - 8 @ 10g/L |
| Melting Point/Freezing Point | -10°C |
| Initial Boiling Point and Boiling Range | 105°C |
| Flash Point | Does not flash |
| Evaporation Rate | Not Available |
| Flammability | Non-flammable |
| Upper Flammable Limit | Not Available |
| Lower Flammable Limit | Not Available |
| Vapour Pressure (mm Hg, 20°C) | Not Available |
| Vapour Density (Air=1) | Not Available |
| Relative Density | Not Available |
| Solubility(ies) | Miscible in water |
| Partition Coefficient: n-octanol/water | Not Available |
| Auto-ignition Temperature | Does not ignite |
| Decomposition Temperature | Not Available |
| Viscosity | <100 @ 20°C |
| Explosive Properties | Not Available |

| | |
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| Specific Gravity (Water=1) | 1.21 – 1.31 |
| % Volatiles by Volume | Not Available |
| Formula | Not Available |
| Molecular Weight | Not Available |

Section 10 - Stability and Reactivity

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|---|--|
| Reactivity | Not Available |
| Stability | Stable under normal conditions. |
| Possibility of Hazardous Reactions | Polymerization will not occur. |
| Conditions to Avoid | Not Available |
| Incompatible Materials | Oxidizing agents may cause exothermic reactions. |
| Hazardous Decomposition Products | Oxides of nitrogen, carbon, and phosphorous |

Section 11 - Toxicological Information

Acute Toxicity

| Component | Oral LD₅₀ | Dermal LD₅₀ | Inhalation LC₅₀ |
|------------------|-----------------------------|-------------------------------|-----------------------------------|
| ClearHib 164 | >5000mg/kg (rat) | >5000mg/kg (rabbit) | Not Available |

Chronic Toxicity – Carcinogenicity

| Component | IARC |
|------------------|---------------|
| ClearHib 164 | Not Available |

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| Skin Corrosion/Irritation | May cause some mild irritation including redness and itching. |
| Ingestion | No adverse effects expected if ingested. |
| Inhalation | Inhalation of dusts may be mildly irritating. |
| Serious Eye Damage/Irritation | May cause mild irritation including some stinging and redness. |
| Respiratory or Skin Sensitization | Non-sensitizing. |
| Germ Cell Mutagenicity | Not Available |
| Reproductive Toxicity | Not Available |
| Single Target Organ Toxicity- Single Exposure | No adverse health effects expected. |
| Single Target Organ Toxicity- Repeated Exposure | No adverse health effects expected. |
| Aspiration Hazard | Not Available |
| Synergistic Materials | Not Available |

Section 12 – Ecological Information

Ecotoxicity

| Component | Toxicity to Algae | Toxicity to Fish | Toxicity to Daphnia and Other Aquatic Invertebrates |
|------------------------------|---|---|---|
| ClearHib 164 | Not Available | LC ₅₀ (Danio rerio, 96hr): >100mg/L | EC ₅₀ (Daphnia magna, 48hr): >100mg/L |
| Biodegradability | Not readily biodegradable. | | |
| Bioaccumulation | Not Available | | |
| Mobility | Not Available | | |
| Other Adverse Effects | The product is rapidly eliminated from the aquatic medium through irreversible adsorption onto suspended matter and dissolved organics. | | |

Section 13 – Disposal Considerations

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| Waste From Residues/Unused Products | Dispose in accordance with all federal, provincial, and/or local regulations including the Canadian Environmental Protection Act. |
| Contaminated Packaging | Dispose in accordance with all federal, provincial, and/or local regulations including the Canadian Environmental Protection Act. |

Section 14 – Transport Information

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|-----------------------------------|--|
| UN Number | Not Regulated |
| UN Proper Shipping Name | Not Regulated |
| Transport Hazard Class(es) | Not Regulated |
| Packaging Group | Not Regulated |
| Environmental Hazards | Not listed as a marine pollutant under Canadian TDG Regulations, schedule III. |
| Special Precautions | Not Available |
| Transport in Bulk | Not Available |
| <u>TDG</u> | |
| Other | Secure containers (full and/or empty) with suitable hold down devices during shipment and ensure all caps, valves, or closures are secured in the closed position. |

TDG PRODUCT CLASSIFICATION: This product has been classified on the preparation date specified at section 14 of this MSDS / SDS, for transportation in accordance with the requirements of part 2 of the Transportation of Dangerous Goods Regulations. If applicable, testing and/or published test data regarding the classification of this product are listed in the references at section 16 of this MSDS / SDS.

Section 15 – Regulatory Information

NOTE: THE PRODUCT LISTED ON THIS SDS HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CANADIAN CONTROLLED PRODUCTS REGULATIONS. THIS SDS CONTAINS ALL INFORMATION REQUIRED BY THOSE REGULATIONS.

Section 16 – Other Information

Preparation Date 2018 March 12

Note: The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations.

Attention: Receiver of the chemical goods / SDS coordinator

As part of our commitment to the Canadian Association of Chemical Distributors (CACD) Responsible Distribution[®] initiative, ClearTech Industries Inc. and its associated companies require, as a condition of sale, that you forward the attached Safety Data Sheet(s) to all affected employees, customers, and end-users. ClearTech will send any available supplementary handling, health, and safety information to you at your request.

If you have any questions or concerns please call our customer service center.

References:

- 1) CHEMINFO
- 2) eChemPortal
- 3) TOXNET
- 4) Transportation of Dangerous Goods Canada
- 5) HSDB
- 6) ECHA

ClearTech Industries Inc. - Locations

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