

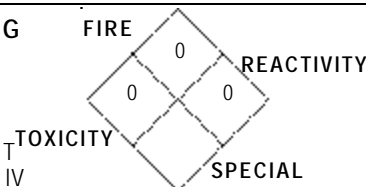


**KLEENCO**  
FOR QUALITY, VALUE AND PERFORMANCE

KLEENCO PRODUCTS, INC.  
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TELEPHONE NUMBER  
Reg. Phone  
206-641-8888  
For Emergency Assistance  
Call Infotrac (800) 535-5053

**HAZARD RATING**  
4 = EXTREME  
3 = HIGH  
2 = MODERATE  
1 = SLIGHT  
0 = INSIGNIFICANT  
\* = SEE SECTION IV



# MATERIAL SAFETY DATA SHEET

|  |  |          |               |
|--|--|----------|---------------|
| PRODUCT NAME<br><b>QUICK-THAW "PLUS"</b> | DATE ISSUED 04-23-93   | CODE     | DOT HAZARD    |
|  | PREPARED BY<br>Dale R. Silbaugh                              | 021-0285 | Not Regulated |
| FORMULA<br>Proprietary                   | CHEMICAL NAMES AND OR SYNONYMS<br>Powdered Cleaning Compound |          |               |

## I-COMPOSITIONAL INFORMATION/SARA III INFORMATION

| INGREDIENTS  | CAS NUMBER | OCCUPATION OSHA PEL | EXPOUSURE ACGIH TLV | LIMITS OTHER | VAPOR PRESSURE mm Hg @ TEMP | WEIGHT PERCENT |
|--|------------|---------------------|---------------------|--------------|-----------------------------|----------------|
| No toxic chemical(s) subject to the reporting requirements of section 313 of Title III and 40 CFR 342. <b>NOTE:</b> The precise composition of this mixture is proprietary. A more complete description will be provided to a physician in the event of a medical emergency. |            |                     |                     |              |                             |                |

## II - PHYSICAL PROPERTY INFORMATION

|   |                                       |                                       |  |
|---|---------------------------------------|---------------------------------------|--|
| APPEARANCE and ODOR<br>Colorless or white crystals. |                                       |                                       |  |
| MELTING POINT<br>1422°F.                            | BOILING POINT<br>Sublimes @ 1422°F.   | COATING V.O.C.<br>Not Applicable      | EVAPORATION RATE<br>No information found |
| SOLUBILITY IN WATER<br>35.7 g/100g of water         | SPECIFIC GRAVITY (Water = 1)<br>1.987 | VAPOR DENSITY<br>No information found |  |

## III - FIRE AND EXPLOSION HAZARD INFORMATION

|   |  |   |   |
|---|--|---|---|
| FLASH POINT<br>Not Applicable   | AUTO IGNITION TEMPERATURE<br>Not Available | LOWER EXPLOSION LIMIT (%)<br>Not Applicable | UPPER EXPLOSION LIMIT (%)<br>Not Applicable |
| EXTINGUISHING MEDIA<br><input checked="" type="checkbox"/> FOAM <input checked="" type="checkbox"/> CO <sub>2</sub> <input checked="" type="checkbox"/> DRY CHEMICAL <input checked="" type="checkbox"/> WATER SPRAY <input type="checkbox"/> OTHER   |  |   |   |
| SPECIAL FIRE FIGHTING PROCEDURES For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment. This may include self-contained breathing apparatus to protect against the hazardous effects of normal products of combustion or oxygen deficiency. Read the entire MSDS. |  |   |   |
| UNUSUAL FIRE AND EXPLOSION HAZARDS None known   |  |   |   |

## IV - HEALTH HAZARD INFORMATION

|   |   |   |  |
|---|---|---|--|
| THRESHOLD LIMIT VALUE<br>Not Established  | ROUTE(S) OF ENTRY:<br><input checked="" type="checkbox"/> INHALATION See Health Hazards | <input checked="" type="checkbox"/> SKIN See Health Hazards | <input checked="" type="checkbox"/> INGESTION See Health Hazards |
| HEALTH HAZARDS (Acute and Chronic) CHRONIC EFFECTS OF EXPOSURE: No information found.   |   |   |  |
| CARCINOGENICITY:<br>Not considered to be a carcinogen <input type="checkbox"/> NTP <input type="checkbox"/> IARC Monographs <input checked="" type="checkbox"/> OSHA Regulated  |   |   |  |
| SIGNS AND SYMPTOMS OF EXPOSURE INHALATION: Inhalation of high concentrations of dust may cause nasal or lung irritation. EYE CONTACT: May cause moderate to severe eye irritation with corneal injury, which may be slow to heal. SKIN CONTACT: Short single exposure not likely to cause significant skin irritation. Prolonged or repeated exposure may cause skin irritation, even a burn. May cause more severe response if skin is damp and/or abraded, or if material is confined to skin. "When dissolving, the heat produce may cause more intense effects as well as thermal burns." SWALLOWING: Large quantities can produce gastrointestinal irritation or ulceration and vomiting. May produce weakness and circulatory problems.   |   |   |  |
| MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE<br>Persons with impaired kidney function may be more susceptible to the effects of this substance.  |   |   |  |
| EMERGENCY AND FIRST AID PROCEDURES EYES: If this chemical contacts the eyes, immediately wash the eyes with large amounts of water and continue flushing for 15 minutes, occasionally lifting the lower and upper lids. Get medical attention immediately. Contact lenses should not be worn when working with this chemical. SKIN: If this chemical contacts the skin, flush the contaminated skin with water promptly. If this chemical penetrates the clothing, immediately remove the clothing and flush the skin with water promptly. If irritation persists after washing, get medical attention. INHALATION: If a person breathes large amounts of this chemical, move the exposed person to fresh air at once. Get medical attention for any breathing difficulties. INGESTION: If this chemical has been swallowed, get medical attention immediately. |   |   |  |

## V - REACTIVITY INFORMATION

|   |                                    |  |                          |
|---|------------------------------------|--|--------------------------|
| <input checked="" type="checkbox"/> STABLE  | <input type="checkbox"/> UNSTABLE  | CONDITIONS TO AVOID Decomposes at >400°F.          |                          |
| HAZARDOUS DECOMPOSITION PRODUCTS Oxides of the contained metal and halogen, possibly also free, or ionic halogen.   |                                    |  |                          |
| HAZARDOUS POLYMERIZATION  | <input type="checkbox"/> MAY OCCUR | <input checked="" type="checkbox"/> WILL NOT OCCUR | CONDITIONS TO AVOID None |
| INCOMPATIBILITY (Materials to avoid) Calcium chloride will corrode most metals exposed to air; attack aluminum (and its alloys) and yellow brass; react with sulfuric acid to form hydrogen chloride which is corrosive, irritating, and reactive; give an exothermic reaction with water-reactive materials such as sodium; result in a runaway polymerization reaction with methyl vinyl ether; and, in solution form react with zinc (galvanizing) to yield hydrogen gas which is explosive. |                                    |  |                          |

## VI - SPILL OR LEAK PROCEDURE INFORMATION

|   |  |  |
|---|--|--|
| STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED |  | Losses incidental to correct applications of this product in its intended uses are not expected to be harmful to the environment. Avoid entry of large amount of product into sewers, natural waters, and drinking water sources. Due to possible harmful effects, avoid contact with vegetation, animals, and fish life. Stop the source of leak or release. Clean up releases as soon as possible, observing precautions in Special Protective Information. Sweep, scoop or pick up spilled material. Collect for reuse or disposal. |
| WASTE DISPOSAL METHODS                                    |  | Place contaminated materials in disposable containers and dispose of in a manner consistent with applicable regulations. Contact local environmental authorities for approved disposal of this material.   |

## VII - SPECIAL PROTECTION INFORMATION

|   |   |                |  |
|---|---|----------------|--|
| VENTILATION TYPE  | Local mechanical exhaust ventilation, capable of maintaining emissions at the point of use below the PEL.       |                |  |
| RESPIRATORY PROTECTION  | If use conditions generate dust, wear a NIOSH-approved dust respirator suitable for the conditions encountered. |                |  |
| PROTECTIVE GLOVES   | Impervious  | EYE PROTECTION | Wear eye protection to prevent any possibility of eye contact. |
| OTHER PROTECTIVE EQUIPMENT Wear appropriate equipment to prevent any possibility of skin contact. |   |                |  |

## VIII - STORAGE AND HANDLING INFORMATION

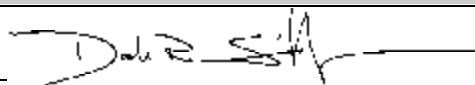
|   |  |  |
|---|--|--|
| PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE |  | Keep out of reach of children. Store in a cool dry place away from incompatible materials. Keep container tightly closed when not in use. Workers should wash immediately when skin becomes contaminated and at the end of each work shift. The following equipment should be available: Eyewash. It is generally recognized that contact lenses should not be worn when working with chemicals because contact lenses may contribute to the severity of the injury.   |
| OTHER PRECAUTIONS                               |  | Read and follow label instructions. The label contains information necessary for the proper use of the product. Containers, even those that have been emptied, will retain product residue and vapors. Always obey hazard warnings and handle empty containers as if they were full. ALWAYS USE COOL WATER (TEMPERATURE LESS THAN 80°F.) WHEN DISSOLVING CALCIUM CHLORIDE. HEAT DEVELOPED BY SOLUTIONS IS VERY HIGH DURING DISSOLVING AND MIXING. When exposed to atmosphere, calcium chloride will pick up water and form a solution. Leather clothing and shoes will be damaged by calcium chloride. |

## IX - TOXICITY INFORMATION

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| On the basis of available information this material does not appear to possess any toxicological properties which would require special handling other than good industrial hygiene and safety practices employed with any industrial chemical. |
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## X - MISCELLANEOUS INFORMATION

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| Handle in accordance with good industrial hygiene and safety practices. These practices include avoiding unnecessary exposure and the removal of the material from eyes, skin and clothing. |
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|--|--------------------|---------------------------|---------------------------------|---|
| PRODUCT CODE<br>021-0285   | NA = NOT AVAILABLE | DATE OF ISSUE<br>04-23-93 | SUPERSEDES<br>Any previous MSDS | SIGNED<br> |
| The information contained herein is based on data considered accurate. However no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained thereof. They are offered solely for your consideration, investigation, and verification. Any use of these data and information must be determined by the user to be in accordance with applicable Federal, State and Local laws and regulations. KLEENCO PRODUCTS, INCORPORATED and its Distributors assume no responsibility for personal injury or property damage to vendees, users or third parties caused by the material. Such vendees or users assume all risks associated with the use of the material. |                    |                           |                                 |   |