SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: LIQUID HALT

CHEMICAL NAMES & SYNONYMS: Liquid halt
FORMULA: Proprietary
CHEMICAL FAMILY: SODIUM THIOSULFATE, SOLUTION
SUPPLIER'S NAME: Fabriclean Supply of Kansas, LC
SUPPLIER'S ADDRESS: 14400 W 97th Terrace Lenexa, KS 66215
SUPPLIER'S TELEPHONE: (800) 832-0096

SECTION 2 - INGREDIENTS

INGREDIENTS PERCENT ADOPTED VALUES
No hazardous ingredients.

(Note: The exact composition of this product, with respect to the percentages of its reported ingredients and the presence of its non-regulated ingredients [not reported], is proprietary information and is being withheld. In the event of a medical emergency, total disclosure will be made to the proper authorities.)

SECTION 3 - HEALTH HAZARDS IDENTIFICATION

Threshold Limit Value: As indicated in Section 2 (above).

Primary Routes of Entry: Eye/skin contact. Inhalation. Ingestion.

EFFECTS OF OVEREXPOSURE: EYES: Mist or solution may irritate or burn eyes and cause temporary conjunctivitis if exposure long or repeated. SKIN: Mist may cause irritation from prolonged contact. Product may cause irritation, which may lead to dermatitis from repeated or prolonged contact. INHALATION: Inhalation of product or mist may irritate the respiratory tract, in acute or chronic exposures. INGESTION: May cause irritation of the gastrointestinal tract and purging, if large quantity is ingested. Relatively low in acute toxicity.

SUPPLEMENTAL HEALTH INFORMATION: Pre-existing eye, skin and respiratory disorders may be aggravated by exposure.

SECTION 4 - FIRST AID MEASURES

EYES: Object is to flush material out of eyes immediately, then seek medical attention. Immediately flush with plenty of water for at least 15 minutes while holding eyelids open to ensure flushing of the entire eye surface. Get medical attention.

SKIN: Immediately wash contaminated areas with plenty of water for at least 15 minutes. Remove contaminated clothing and footwear and wash clothing before reuse. Discard footwear, which cannot be decontaminated. Seek medical attention if symptoms develop or persist.

INHALATION: Remove to fresh air; if breathing is difficult, have trained personnel administer oxygen. If respiration stops, give mouth-to-mouth resuscitation. Get immediate medical attention. (Note: Coughing, sneezing or other symptoms of upper respiratory irritation may serve as a warning of exposure to high airborne concentrations.)

INGESTION: DO NOT INDUCE VOMITING! Rinse mouth with water; give large quantities of water or milk to drink. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Give more liquids. Do not give anything by mouth to an unconscious or drowsy person. Get immediate medical attention. (Because rapid absorption may occur through lungs if aspirated and cause systemic effects, the decision of whether to induce vomiting or not should be made by a physician.)

SECTION 5 - FIRE & EXPLOSION HAZARDS / FIRE FIGHTING MEASURES

Flash Point: Not flammable.

Flammable Limits: N/A

Extinguishing Media: As suitable for adjacent fire.

Special Fire Fighting Procedures: Wear NIOSH approved self-contained breathing apparatus. Use water spray to keep containers cool and to knock down fumes. Move container from fire area if possible. Keep upwind.

Unusual Fire and Explosion Hazards: If involved in a fire, toxic and irritating gases and residue may evolve.
SECTION 6 - ACCIDENTAL RELEASE MEASURES

Steps to be taken if material is released or spilled: Promptly dike ahead of spill. Soak up with absorbent and shovel into empty container and cover. Store in a cool dry area away from acids and oxidizers. Flush spill area with plenty of water to sewer if permitted by applicable local, state and federal regulations.

SECTION 7 - HANDLING AND STORAGE

Precautions to be taken in handling and storing: Minimize skin contact. Wash with soap and water before eating, drinking, smoking or using toilet facilities. Containers of the material may be hazardous when emptied. "Empty" containers retain product residues. Observe all hazard precautions outlined in this sheet. Store in cool dry area, away from acids and oxidizers. Keep container closed; protect from physical damage.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory Protection: If misty conditions prevail, use NIOSH approved mist respirator.
Ventilation Required: Use local exhaust if misty conditions prevail.
Protective Clothing: Eyes: If exposed to mist or solution, wear hard hat and chemical safety goggles. Do not wear contact lenses. Skin: For solutions, wear impervious gloves and apron. For routine handling, body covering clothing. If contact repeated or prolonged wear full impervious clothing.
Other Protective Measures: Safety shower, eye bath and washing facilities should be available and easily accessible.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear
State: Liquid
Odor: No distinct odor.
Specific Gravity: 1.118
Solubility in water: Complete
pH: 8.6 - 9.6 typical

SECTION 10 - STABILITY AND REACTIVITY DATA

Stability: Stable
Incompatibility: High temperature (above 212 deg. F) yield sulfur dioxide gas and hazardous residue. Strong oxidizers can cause vigorous exothermic reactions. Acids release sulfur dioxide gas and hydrogen sulfide gas. Incompatible with lead, reductants, mercury and silver salts. Reacts with halogens; with nitrates may possibly explode on heating; with sodium nitrite may explode violently when most of the water of crystallization has been driven off by heating.
Hazardous Decomposition: Sulfur dioxide (toxic, corrosive and an oxidizer). Sodium sulfide residue (flammable, dangerous fire risk, strong irritant to skin and tissue, incompatible with acids).
Hazardous Polymerization: Will not occur.

SECTION 11 - TOXICOLOGICAL INFORMATION

Toxicological Information: Doses of 32 g/kg (product) in rats were non-toxic upon ingestion.
Chemical Fate Information: Probable lethal dose for humans is 20.0 gm/kg.

SECTION 12 - ECOLOGICAL INFORMATION

UNK

SECTION 13 - DISPOSAL CONSIDERATIONS

Waste material may have to be disposed of by an approved contractor. If disposed of as shipped, this material is a RCRA reactive waste with a hazardous waste ID No. D003 (unlisted hazardous wastes characteristic of reactivity.) (CFR 261.23). (See Section 8.)

SECTION 14 - TRANSPORT INFORMATION

Proper Shipping Name: None
Hazard Class: None
Packing Group: None
UN#: None
Sticker Required: None
SECTION 15 - REGULATORY INFORMATION

(Notice: The information herein is presented in good faith and believed to be accurate as of the effective date shown below. However, no warranty, expressed or implied is given. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer’s responsibility to ensure that its activities comply with federal, state or provincial, and local laws. The following specific information is made for the purpose of complying with numerous federal, state or provincial, and local laws and regulations.)

(A simple explanation of each act [legislation] is included in this section. Ingredients listed in these sections means they are governed by that particular act.)

**RCRA - RESOURCE CONSERVATION AND RECOVERY ACT (HAZARDOUS WASTE):** The act that mandated the development of hazardous waste regulations. These regulations can be found in 40 CFR 260-281.

Product not listed.

**REPORTABLE QUANTITIES - CERCLA (ACCIDENTAL RELEASE):** The Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) identifies a list of substances that have an adverse effect if released to the environment. The Act designates the reportable quantity (RQ) for each of these substances, and the notification requirements for releases or spills. When a specified amount of a chemical is released or spilled, the National Response Center must be notified. This specified amount is the "reportable quantity." The reportable quantity for each chemical is based on the severity of environmental hazard it presents.

Product not listed.

**THRESHOLD PLANNING QUANTITIES (SARA - COMMUNITY RIGHT TO KNOW) EXTREMELY HAZARDOUS SUBSTANCE LIST:** The Extremely Hazardous Substance (EHS) list and planning quantities trigger certain reporting requirement to emergency planning agencies. If your facility has a listed hazardous substance in amounts equal to or greater than the quantities shown on the index, the regulations of 40 CFR 355 and 370 apply to you.

Product not listed.

**SARA TITLE III, SECTION 313: EPA** has developed a list of over 320 regulated chemicals and 22 chemical categories. An entry in this section, indicates that a given chemical appears on this list. The entry will consist of a date, which identifies the effective date for reporting; and a "de minimis" amount. This amount, 1% or 0.1%, indicates the minimum amount of a chemical that must be present in a mixture to trigger reporting.

Product not listed.

**RISK MANAGEMENT PROGRAM - EPA:** On January 31, 1994, a new EPA rule was finalized. It was required under section 112(r) of the Clean Air Act. It is aimed at preventing accidental chemical releases. This first rule presented a list, composed of three categories: 77 toxic substances, 63 flammable substances, and explosive substances with a mass explosion hazard as listed by DOT. The complete regulation can be found in 40 CFR Part 68 - Chemical Accident Prevention Provisions.

Product not listed.

**WHMIS - CANADA:** The Workplace Hazardous Materials Information System (WHMIS) is Canada's version of Hazard Communication. Its provisions closely parallel the US. Regulations.

Product not listed.

**DOT:** The Department of Transportation (DOT) regulates those substances that present a potential hazard during transportation. There may be labeling, special packaging, and/or placarding required.

Product not listed.

**NFPA - NATIONAL FIRE PROTECTION ASSOCIATION:** The National Fire Protection Association (NFPA) is a nonprofit, educational organization. The goal of NFPA is to promote the science of fire protection and prevention. With this aim, NFPA has developed information on the hazardous properties of many chemicals, which enables the user to come up with safe procedures during the chemicals’ use, storage, and transportation. There are three categories of hazards: Health (H), flammability (F), and reactivity (R). Within each category, there are numerical ratings from 0 - 4, with 0 indicating no hazard, 4 indicating severe hazard.

Product not listed - Health 1 / Fire 0 / Reactivity 0

**HAZARD COMMUNICATION:** OSHA's Hazard Communication Standard initially went into effect November 1985/May 1986. It is OSHA's most comprehensive worker protection regulation. It provides for information and training for workers encountering chemical exposures in the workplace. The standard requires the use of labels and Material Safety Data Sheets for all regulated chemicals.

**National Toxicology Program (NTP):** A list of carcinogens. Product not listed.

**International Agency For Research On Cancer:** Another carcinogen list. Product not listed.

**Subpart Z - OSHA:** (Found at 1910.1000-.1101) If a chemical is on this list, it means there are specific training requirements on the handling, etc. Product not listed.
Threshold Limit Values: ACGIH: Threshold limit values (TLVs) which refer to airborne concentrations of substances and represent conditions under which nearly all workers must be repeatedly exposed day after day without adverse effect. Product not listed.

Process Safety Management - OSHA: OSHA established a regulation (1910.119) to monitor and control safety at certain types of industrial facilities. Compliance is triggered by specified quantities of specific chemicals.

Product not listed.

Proposition 65 - California: Proposition 65 refers to an initiative passed by the California voters in the November 1986 elections. It is the Safe Drinking Water and Toxic Enforcement Act of 1986. One of the components is the listing of chemicals known to cause cancer or reproductive toxicity. Twelve months after a chemical is listed, a person in the course of doing business must warn another person who may consume, come into contact with, or otherwise be exposed to that chemical.

Product not listed.

The New Clean Air Act - Hazardous Air Pollutants: This rule regulates the emissions of 112 of the organic chemicals identified in the Cats list of 189 hazardous air pollutants.

Product not listed.

SECTION 16 - OTHER INFORMATION

AS A GENERAL RULE, PREVENT AND PROTECT THIS PRODUCT FROM UNAUTHORIZED USE FOR INDUSTRIAL USE ONLY !!!!!!

END OF REPORT

NAME: Robert C. Jaudon                        DATE ISSUED: 07/29/04
(636) 296-3131, 296-3888         DATE REVISED:
<  = LESS THAN                    N/A  = NOT APPLICABLE
>  = MORE THAN                    N/D = NOT DETERMINED
UNK = UNKNOWN                    N/E = NOT ESTABLISHED

In accord with the philosophy established by the Occupational Safety and Health Administration's Hazard Communication Final Rule, 1985, this Material Safety Data Sheet has been designed to emphasize the hazardous portions (ingredient[s]) utilized in the total formulation. As a result, the information herein stresses the most hazardous component(s) only. By this approach, we feel better knowledge and awareness should substantially contribute to reduce exposure and injury to workers involved with the use of this product. The information supplied in this document is presented for exactly this purpose. As required by law, this data should be thoroughly read and made available to anyone who may be responsible for handling this material. All data provided relates to the concentrated product as shipped. Actual usage rates and further dilution will, in most cases, greatly reduce, if not eliminate, the potential for worker injury. Any and all chemical products should be handled with extreme care and only by authorized and informed personnel. Each aspect of your operation should be examined to determine if, or where, additional precautions may be necessary. All health and safety information contained in this MSDS should be provided to your employees or customers. It is your responsibility to use this information to develop appropriate work practice guidelines and employee instructional programs for your operation.

The information and recommendations provided in this Material Safety Data Sheet have been obtained from data we believe to be reliable. We provide no warranties, expressed or implied, or accept no responsibility for loss associated with the use or handling of this product. This information is offered for your review and consideration. Efforts should be extended to determine the applicability of this product for your specific intended use. We know of no medical condition, other than those noted in this Material Safety Data Sheet, which are generally recognized as being aggravated by exposure to this product.

REASON FOR REVISION: