

MT. HOOD CHEMICAL CORPORATION (MT. HOOD SOLUTIONS)

14546 N. Lombard

Portland, Oregon 97203

Emergency Phone: 503-227-3505

N/A = NOT APPLICABLE

NA = NOT AVAILABLE

MATERIAL SAFETY DATA SHEET**PRODUCT NAME: STAR PLUS**

DATE PRINTED: 5/8/2012

PRODUCT NAME: STAR PLUS

PREPARED BY: K. Woods

DATE: August 31, 1995

CHEMICAL FAMILY: Chlorinated alkaline mixture

FORMULA: Proprietary

HAZARDOUS INGREDIENTS (CAS #):

Sodium hydroxide (1310-73-2)

Sodium hypochlorite (7681-52-9)

%	
Less than 25%	
Less than 5%	

EXPOSURE LIMITS, ppm:

ACGIH TLV

2 mg/M³

N/A

OSHA-PEL

2 mg/M³

N/A

CARCINOGENIC INGREDIENTS: Contains no known or suspected carcinogens.

SARA TITLE III, SECTION 313 REPORTABLE INGREDIENTS: None

PHYSICAL PROPERTIES:

Boiling Point: About 212°F

Solubility in Water: 100%

Specific Gravity - Liquid (H₂O = 1): 1.19-1.25

Odor and Appearance: Clear, yellow liquid; chlorine odor

% Volatiles: N/A

% Volatile Organic Content (VOC): 0

Vapor Pressure: N/A

Vapor Density (Air = 1): N/A

FIRE AND EXPLOSION DATA:

Flash Point: None

Extinguishing Media: Water, CO₂, foam, dry chemical

Special Firefighting Procedures: None

Flammability Limits: N/A

Unusual Hazards: None

HEALTH EFFECTS:

Effects of overexposure: Corrosive. May cause severe burns to eyes and skin. Ingestion may cause burns to mouth, throat, esophagus, and stomach. Inhalation of mist may result in mild irritation of nasal mucous membranes to severe irritation to the respiratory tract.

Chronic effects of overexposure: None known

Medical conditions that may be aggravated by exposure: Dermatitis

Primary routes of entry: Ingestion, skin contact, inhalation of mist

EMERGENCY AND FIRST AID PROCEDURES:

Eye Contact: Flush thoroughly with plenty of water for at least 15 minutes or until medical attention is obtained. Get medical attention.

Skin Contact: Flush thoroughly from skin with water for at least 15 minutes or until medical attention is obtained. Get medical attention. Remove all contaminated clothing.

Ingestion: Drink large quantities of water or milk and call a physician immediately. DO NOT INDUCE VOMITING. If vomiting occurs, give more water. Never give anything by mouth to an unconscious person. Get immediate medical attention.

Inhalation of mist or vapor: Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get prompt medical attention.

REACTIVITY DATA:

Stability: Stable

Hazardous Polymerization: Will not occur

Incompatibility: Strong acids, chlorinated hydrocarbons, reactive metals (aluminum, zinc, tin), ammonia

Hazardous Decomposition Products: Will react with reactive metals to produce hydrogen gas.

Conditions to Avoid: When making dilutions with water, add product to water to avoid splattering.

SPILL OR LEAKAGE PROCEDURES:

Steps to be taken if material is released or spilled: Prevent spread of spill by diking. Dilute with water. Neutralize with a weak acid and flush to sewer with plenty of water.

Waste disposal method: According to local, state, or federal ordinances.

SPECIAL PROTECTION INFORMATION:

Ventilation: Use with adequate ventilation.

Respiration Protection: For mist, use NIOSH approved respirator with mist canister.

Eye Protection: Safety goggles and/or face shield required.

Protective Gloves: Impervious gloves--synthetic rubber, neoprene.

Other Protective Equipment: Rubber boots and clothing if applicable to product application.

SPECIAL PRECAUTIONS: KEEP OUT OF REACH OF CHILDREN.

Precautions to be taken in handling and storage: Store in closed container. Wash thoroughly after handling

Other precautions: None

HAZARD RATING: Specific Hazard: CORROSIVE

Health:	3	0 = Minimal	3 = Serious
Fire:	0	1 = Slight	4 = Severe
Reactivity:	1	2 = Moderate	

P R O D U C T I N F O R M A T I O N

STAR PLUS - LIQUID DISHMACHINE COMPOUND

GENERAL DESCRIPTION:

STAR PLUS is a heavy-duty chlorinated liquid formulated for automatic dishmachines. For safety, STAR PLUS can be dispensed directly into the dishmachine. STAR PLUS is phosphate-free and biodegradable. STAR PLUS is formulated with highly active water conditioning agents for effective cleaning and destaining in hard water areas.

<u>PROPERTIES:</u>	Form:	Liquid
	Color:	Pale Yellow
	Odor:	Chlorine

USE DIRECTIONS:

CAUTION: STAR PLUS is a high alkaline, chlorinated product. Not for use on aluminum.

STAR PLUS is injected automatically into the dishmachine with an injector dispenser. Your Mt. Hood Solutions sales representative will set the dispenser for optimum results.

CAUTION:

Corrosive. May cause eye or skin burns. For contact with skin or eyes, flush with plenty of water for at least 15 minutes. For eyes, see a physician immediately. Do not ingest. Consult the Material Safety Data Sheet for additional precautions.

KEEP OUT OF REACH OF CHILDREN.

PACKAGING: 5 gal. pail

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