1. Identification - Product and company identification

CHEMTREC EMERGENCY TEL: 1-800-424-9300

O.C.C.S. 10680 FERN AVE STANTON, CA 90680

PRODUCT ITEM#: 52412,52413,52414,52415-BLEACH

DATE PREPARED: 3/10/15

RECOMMENDED USE: Cleaning & Deodorizing

RESTRICTIONS ON USE: For Industrial and Professional Use

PRODUCT DILUTION INFORMATION: Ready to use

2. Hazardous Identification

Physical hazards Corrosive to metals Category 1

Health hazards Skin corrosion/irritation Category 1, Serious eye damage/eye irritation Category 1

Specific target organ toxicity, single exposure Category 3 respiratory tract irritation

Hazardous to the aquatic environment, acute hazard Category 1

Environmental hazards Hazardous to the aquatic environment, Category 2 long-term hazard

OSHA defined hazards Not classified.







Signal Word: Danger

Hazard Statements: May be corrosive to metals. Causes severe skin burns and eye damage. May cause respiratory irritation. Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS: Prevention Wear protective gloves/protective clothing/eye protection/face protection. Do not breathe mist or vapor. Use only outdoors or in a well-ventilated area. Wash thoroughly after handling. Keep only in original container. Avoid release to the environment. **Response** If swallowed: Rinse mouth. Do NOT induce vomiting. If inhaled: Remove person to fresh air and keep comfortable for breathing. If on skin (or hair): Take off immediately all contaminated clothing.

Rinse skin with water/shower. 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/doctor. Wash contaminated clothing before reuse. Absorb spillage to prevent material damage. Collect spillage.

Storage Store in a well-ventilated place. Keep container tightly closed. Store locked up. Store in corrosive resistant container with a resistant inner liner.

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

OTHER HAZARDS: None known

3. Composition/information on ingredients

SUBSTANCE/MIXTURE: CHEMICAL NAME: Mixture

Sodium hypochlorite 7681-52-9

4. First aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact Take off immediately all contaminated clothing. Wash off IMMEDIATELY with plenty of water for at least 15-20 minutes. Get medical attention immediately. Wash contaminated clothing before reuse. Call a physician or poison control center immediately.

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.

Ingestion Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Most important symptoms/effects, acute and delayed

Corrosive effects. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

Indication of immediate medical attention and special treatment needed

Treat symptomatically. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. With eye exposure, continue flushing during transport to hospital.

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5. Fire-fighting measures

Suitable extinguishing media Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire. Do not use dry extinguishing media that contains ammonium compounds.

Specific hazards arising from the chemical

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire-fighting equipment/instructions

In case of fire and/or explosion do not breathe fumes. Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Wear appropriate personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Absorb spillage to prevent material damage. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see Section 8 of the SDS.

Methods and materials for containment and cleaning up

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water. Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills in original containers for re-use. For waste disposal, see Section 13 of the SDS.

Environmental precautions Do not discharge into drains, water courses or onto the ground. Environmental manager must be

informed of all major releases.

7. Handling and storage

Precautions for safe handling Wear appropriate personal protective equipment. Do not get in eyes, on skin, on clothing. Use with

adequate ventilation. Observe good industrial hygiene practices. Do not apply heat or direct sunlight. Temperature and product concentration affect product quality and decomposition rates.

Conditions for safe storage, including any incompatibilities

Keep container tightly closed. Store in a cool and well-ventilated place. Store in a corrosive resistant container. Consult container manufacturer for additional guidance. Store away from and do not mix with incompatible materials such as acids, oxidizers, organics, reducing agents, and all metals except titanium.

8. Exposure controls/personal protection

Occupational exposure limits US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components Type Value Sodium hydroxide (CAS PEL 2 mg/m3 1310-73-2)

US. ACGIH Threshold Limit Values Components Type Value Sodium hydroxide (CAS Ceiling 2 mg/m3 1310-73-2) **US. NIOSH: Pocket Guide to Chemical Hazards Components Type Value** Sodium hydroxide (CAS Ceiling 2 mg/m3 1310-73-2)

US. Workplace Environmental Exposure Level (WEEL) Guides Components Type Value Sodium hypochlorite (CAS STEL 2 mg/m3 7681-52-9)

Biological limit values No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment Eye/face protection Wear safety glasses with side shields (or goggles) and a face shield. Wear a full-face respirator, if needed.

Skin protection Hand protection Wear appropriate chemical resistant gloves. **Other** Wear appropriate chemical resistant clothing. Reports indicate that sodium hypochlorite can react with various fabrics usually increasing with concentration. Reactions vary significantly depending on strength of chemical, material, fabric treatment and color of dyes. FRC treated

cotton has a stronger response than plain cotton. Poly blend fabrics and meta aramid fabric have a weaker response than natural fibers. Contact the Personal Protective Equipment manufacturer for specific information about their products. **Respiratory protection** If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

Thermal hazards Wear appropriate thermal protective clothing, when necessary. **General hygiene considerations** Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants

9. Physical and chemical properties

Appearance Physical state Liquid. Form Liquid. Color Not available. Odor Pungent. Odor threshold 0.9 mg/m³ pH 12 - 14 (25 °C/77 °F) Melting point/freezing point -4 °F (-20 °C) (7% solution) Initial boiling point and boiling range Not available.

Flash point Not applicable Evaporation rate No data available Flammability (solid, gas) Not available. Upper/lower flammability or explosive limits Flammability limit – lower (%) Not applicable Flammability limit – upper (%) Not applicable

Explosive limit - lower (%) Not available. Explosive limit - upper (%) Not available. Vapor pressure 12 mm Hg (20°C/68°F)

Vapor density Not available. Relative density Not available. Solubility(ies) Solubility (water) Completely miscible Partition coefficient (n-octanol/water) Not available. Auto-ignition temperature Not applicable Decomposition temperature Not available. Viscosity Not available. Other information Bulk density Not applicable Molecular formula NaOCI Molecular weight 74.5 g/mol

10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous reactions Hazardous polymerization does not occur.

Conditions to avoid Contact with incompatible materials. Avoid ultraviolet (UV) light sources. Excessive heat. Reacts violently with strong acids. Acid contact will produce chlorine gas. Amine contact will produce chloramines.

Incompatible materials Strong oxidizing agents. Acids. Metals. Organic compounds. Ammonia.

Hazardous decomposition products No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure Ingestion Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Ingestion may produce burns to the lips, oral cavity, upper airway, esophagus and possibly the digestive tract. Inhalation Vapors and spray mist may irritate throat and respiratory system and cause coughing. Skin contact Causes skin burns. Eye contact Causes eye burns. Symptoms related to the physical, chemical and toxicological characteristics Corrosive effects. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Information on toxicological effects Acute toxicity Occupational exposure to the substance or mixture may cause adverse effects.

Product Species Test Results Sodium Hypochlorite, 5 - 17% (CAS Mixture) LD50 Rabbit *Dermal* **Acute**> 2 g/kg LD50 Rat *Oral* 3 - 5 /kg * Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation Causes severe skin burns and eye damage. **Serious eye damage/eye irritation** Causes serious eye damage.

Respiratory or skin sensitization Respiratory sensitization No data available. Skin sensitization No data available. Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

IARC Monographs. Overall Evaluation of Carcinogenicity Sodium hypochlorite (CAS 7681-52-9) 3 Not classifiable as to carcinogenicity to humans. Reproductive toxicity No data available. Specific target organ toxicity - single exposure May cause respiratory irritation. Specific target organ toxicity - repeated exposure No data available. Aspiration hazard Not classified, however droplets of the product may be aspirated into the lungs through ingestion or vomiting and may cause a serious chemical pneumonia.

Chronic effects Prolonged or repeated overexposure causes lung damage. **Further information** Prolonged inhalation may be harmful.

12. Ecological information

Ecotoxicity Very toxic to aquatic life. Toxic to aquatic life with long lasting effects. **Product Species Test Results** Sodium Hypochlorite, 5 - 17% (CAS Mixture) **Aquatic** Crustacea LC50 Daphnia 1 mg/l * Estimates for product may be based on additional component data not shown. Fish LC50 Bluegill (Lepomis macrochirus) 0.6 mg/l, 48 hours **Persistence and**

degradability No data is available on the degradability of this product. **Bioaccumulative potential** No data available for this product. **Mobility in soil** Not available. **Other adverse effects** No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Waste from residues / unused products Dispose of in accordance with local regulations. Empty containers or liners may retain some

product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

DOT UN number UN1791 **UN proper shipping name** Hypochlorite solutions **Class** 8 **Transport hazard class(es) Subsidiary risk** -

Packing group III Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Special provisions IB3, N34, T4, TP2, Packaging exceptions 154 Packaging non bulk 203 Packaging bulk 241 IATA UN number UN1791 UN proper shipping name Hypochlorite solution Class 8 Transport hazard class(es) Subsidiary risk -

Label(s) 8 Packing group ||| Environmental hazards Yes ERG Code 8L

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

IMDG UN number UN1791UN proper shipping name HYPOCHLORITE SOLUTION Class 8 Transport hazard class(es) Subsidiary risk - Label(s) 8 Packing group III Marine pollutant Yes Environmental hazards EmS F-A, S-B Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

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

15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) Not regulated.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Not listed.

CERCLA Hazardous Substance List (40 CFR 302.4) Sodium hydroxide (CAS 1310-73-2) LISTED

Sodium hypochlorite (CAS 7681-52-9) LISTED

Superfund Amendments and Reauthorization Act of 1986 (SARA) Hazard categories Immediate Hazard – Yes Delayed Hazard - No

Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance Not listed.

SARA 311/312 Hazardous chemical Yes

SARA 313 (TRI reporting) Not regulated. Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130) Not regulated.

Safe Drinking Water Act (SDWA) Not regulated.

US state regulations US. Massachusetts RTK - Substance List Sodium hydroxide (CAS 1310-73-2) Sodium hypochlorite (CAS 7681-52-9) US. New Jersey Worker and Community Right-to-Know Act Sodium hydroxide (CAS 1310-73-2) Sodium hypochlorite (CAS 7681-52-9) US. Pennsylvania Worker and Community Right-to-Know Law Sodium hydroxide (CAS 1310-73-2) Sodium hypochlorite (CAS 7681-52-9) US. Rhode Island RTK Sodium hydroxide (CAS 1310-73-2) Sodium hypochlorite (CAS 7681-52-9) US. California Proposition 65 California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain

any chemicals currently listed as carcinogens or reproductive toxins. **US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance** Not listed.

International Inventories Country(s) or region Inventory name On inventory (yes/no)* Australia Australian Inventory of Chemical Substances (AICS) Yes Canada Domestic Substances List (DSL) Yes Canada Non-Domestic Substances List (NDSL) No China Inventory of Existing Chemical Substances in China (IECSC) Yes European Inventory of Existing

Commercial Chemical Substances (EINECS) Europe Yes Europe European List of Notified Chemical Substances (ELINCS) No Japan Inventory of Existing and New Chemical Substances (ENCS) Yes Korea Existing Chemicals List (ECL) Yes New Zealand New Zealand Inventory Yes Philippine Inventory of Chemicals and Chemical Substances (PICCS) Philippines Yes *A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s). A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s). United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory Yes

16. Other information



Issue date 27-February-2014 Revision date 15-April-2014 Version # 04 NFPA Ratings

List of abbreviations LD50: Lethal Dose, 50%.

LC50: Lethal Concentration, 50%. EC50: Effective concentration, 50%. TWA: Time weighted average.

References EPA: AQUIRE database HSDB® - Hazardous Substances Data Bank

US. IARC Monographs on Occupational Exposures to Chemical Agents IARC Monographs. Overall Evaluation of

Carcinogenicity ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices

Disclaimer This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.