



# SAFETY DATA SHEET

## 1. Identification

<b>Product Identifier</b>	<b>De-Stain</b>
<b>Other means of identification</b>	CU-7220
<b>Product code</b>	
<b>Recommended use</b>	Chlorine de-stain solution for laundry.
<b>Recommended restrictions</b>	Professional use only. Use as directed
<b>Manufacturer information</b>	
<b>Company name</b>	Chemical Universe, Inc.
<b>Address</b>	1133 Saline St. North Kansas City, MO 64116
<b>Telephone</b>	(816) 471-3602
<b>Fax</b>	(816) 474-3302
<b>Emergency phone number</b>	PERS (800) 633-8253 24 hour Emergency (800) 633-8253

## 2. Hazard(s) Identification

<b>Physical hazards</b>	Not classified. (< 15% oxidizing chemical)	
<b>Health hazards</b>	Serious eye damage	Category 1
	Skin corrosion	Category 1
<b>Environmental hazards</b>	Not classified.	
<b>OSHA defined hazards</b>	None	
<b>Label elements</b>		



<b>Signal word</b>	<b>DANGER</b>
<b>Hazard statement</b>	Causes severe skin burns and eye damage.
<b>Precautionary statement</b>	
<b>Prevention</b>	Wash hands and exposed skin thoroughly after handling. Do not breathe dust or mists. Wear protective gloves/protective clothing/eye protection/face protection.
<b>Response</b>	<b>IF SWALLOWED:</b> Rinse mouth. Do NOT induce vomiting. <b>IF ON SKIN (or hair):</b> Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. <b>IF INHALED:</b> Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor/medical professional. Specific treatment (see section 4 on the Safety Data Sheet). <b>IF IN EYES:</b> Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
<b>Storage</b>	Store locked up.
<b>Disposal</b>	Dispose of contents/containers in accordance with local/regional/national/international regulations.
<b>Hazard(s) not otherwise classified (HNOC)</b>	None.
<b>Supplemental information</b>	None.



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## 3. Composition/information on ingredients

Mixture Component(s)		
Chemical name	CAS number	%
Sodium hypochlorite	7681-52-9	10-15
Sodium hydroxide	1310-73-2	2.5-5
Other components below reportable levels		80 - 88

## 4. First-aid measures

<b>Inhalation</b>	Move to fresh air. Call a physician if symptoms develop or persist.
<b>Skin contact</b>	Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions.
<b>Eye contact</b>	Rinse with water for at least 15 minutes. Remove contact lenses if present and easy to do so. Immediately call a physician or transport to hospital.
<b>Ingestion</b>	Rinse mouth. Get medical attention immediately. Do not induce vomiting.
<b>Most important symptoms/effects, acute and delayed</b>	Can cause serious eye damage. Can cause burning sensation in affected areas. Shortness of breath, respiratory tract irritation or damage. Sodium hydroxide is extremely destructive to tissues of the mucous membranes and upper respiratory tract, eyes, and skin.
<b>Indication of immediate medical attention and special treatment needed</b>	Provide general support measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.
<b>General information</b>	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse. Use with extreme caution.

## 5. Fire-fighting measures

<b>Suitable extinguishing media</b>	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO <sub>2</sub> ).
<b>Unsuitable extinguishing media</b>	None reported
<b>Specific hazards arising from the chemical</b>	During fire, gases such as chlorine, hydrogen chloride and phosgene that are immediately hazardous to health may be formed.
<b>Special protective equipment and precautions for firefighters</b>	Self-contained breathing apparatus and full protecting clothing must be worn in case of fire.
<b>Fire-fighting equipment/instructions</b>	Move containers from fire area if you can do so without risk.
<b>Specific methods</b>	Use standard firefighting procedures and consider the hazards of other involved materials.
<b>General fire hazards</b>	No unusual fire or explosion hazards noted. The product does possess oxidizer properties and can enhance fire intensity and propagation in confined areas

## 6. Accidental release measures

<b>Personal precautions, protective equipment and emergency procedures</b>	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. Avoid inhalation of vapors or mists. Do not touch damaged containers or spilled materials unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
<b>Methods and materials for containment and cleaning up</b>	This product is fully miscible in water.



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Large spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water.

Small spills: Wipe up with absorbent material (e.g. cloth, absorbent wipes). Clean surface thoroughly with water to remove residual contamination.

Never return spills to original container for re-use. For waste disposal, see section 13 of the SDS.

**Environmental precautions** Avoid discharge into surface waterways and other areas not consistent with package labeling.

## 7. Handling and storage

**Precautions for safe handling** Avoid breathing mist or vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

**Conditions for safe storage, including any incompatibilities** Store in original tightly closed container. Store away from incompatible materials (see section 10 of the SDS).

## 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	PEL	2 mg/m <sup>3</sup>

#### US ACGIH Threshold Limit Values

Components	Type	Value
Sodium hydroxide	STEL	2 mg/m <sup>3</sup>

**Biological limit values** No information.

**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 to an acceptable level. It is recommended that users of this product perform a risk assessment to determine the appropriate personal protective equipment.

### Individual protection measures, such as personal protective equipment

**Eye/face protection** Avoid contact with eyes. Wear safety glasses with side shields (or goggles).

#### Skin protection

**Hand protection** Wear appropriate chemical resistant gloves. Latex, nitrile/butyl rubber and PVC are recommended barrier materials

**Other** Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

**Respiratory protection** In case of insufficient ventilation, wear suitable respiratory equipment.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

**General hygiene considerations** When using do not smoke or use chewing tobacco. 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. Contaminated work clothing should not be allowed out of the workplace.



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### 9. Physical and chemical properties

<b>Appearance</b>	
Physical State	Liquid.
Color	Clear to light amber.
Odor	Chlorine/bleach
Odor threshold	Not available.
pH	13-14
Melting/freezing point	3°F (-16.11°C)
Initial boiling point and boiling range	<230°F (<110°C)
Flash point	Not available.
Evaporation rate	Not available.
Flammability	Not available.
Flammability Limits	
Upper	Not available.
Lower	Not available.
Vapor pressure	12 mm Hg @ 25°C (12.5% NaOCl)
Vapor density	Not available.
Specific gravity (water=1)	1.3
Solubility in water	Soluble.
Partition coefficient (n-octanol/water)	Not applicable.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	@ 1.24 cPs.

### 10. Stability and reactivity

<b>Reactivity</b>	Reacts violently with strong acids. This product may react with oxidizing agents.
<b>Chemical stability</b>	Material is stable under normal conditions. Store in a cool, dark place.
<b>Possibility of hazardous reactions</b>	Reacts violently with strong acids. This product may react with oxidizing agents. Hazardous polymerization does not occur.
<b>Conditions to avoid</b>	Avoid storage in elevated temperatures. Keep away from heat, sparks, and open flame. Do not mix with other chemicals.
<b>Incompatible materials</b>	Acids, oxidizing agents, strong bases, alkalis (organic)
<b>Hazardous decomposition products</b>	Chlorine, hydrogen chloride. In case of fire see section 5.

### 11. Toxicological information

<b>Information on likely routes of exposure</b>	
Ingestion	Do not ingest. Causes digestive tract burns.
Inhalation	Prolonged inhalation may be harmful. May cause irritation to the respiratory system.
Skin contact	Can cause severe skin burns.
Eye contact	Can cause serious eye damage.



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**Symptoms related to the physical, chemical and toxicological characteristics** Burning sensation, coughing, wheezing, and shortness of breath. Sodium hydroxide is extremely destructive to mucous membranes, eyes, and skin.

**Acute toxicity** Not classified.

Product De-Stain (CAS mixture)		
Exposure Classification	Route and Species	LD <sub>50</sub>
Acute	Oral, rat	>5,000 mg/kg (estimated)
Acute	Dermal, rabbit	>9,300 mg/kg (estimated)
*Estimates for product may be based on additional component data not shown		

**Skin corrosion/irritation** Can cause severe skin burns.

**Serious eye damage/ irritation** Can cause serious eye damage.

**Respiratory sensitization** Not considered a respiratory sensitizer.

**Skin sensitization** Not considered a skin sensitizer.

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

**Carcinogenicity** Not considered a carcinogen.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)** Not Listed.

**Reproductive toxicity** No data available.

**Specific target organ toxicity – single exposure** No data available.

**Specific target organ toxicity – repeated exposure** No data available.

**Aspiration hazard** No data available.

## 12. Ecological information

Ecotoxicity		
Product De-Stain (CAS mixture)		
Aquatic Receptor	Species	Test Threshold
Fish	(Lepomis macrochirus)	LC <sub>50</sub> = 0.42 mg/L estimated
Crustacea	Daphnia magna	EC <sub>50</sub> = 0.7 mg/L estimated
*Estimates for product may be based on additional component data not shown		

**Persistence and degradability** No data available. The listed classes of chemicals are readily degraded in an open aerobic environment

**Bioaccumulative potential** Accumulation in aquatic organisms is not expected.

**Partition coefficient n-octanol/water (log K<sub>ow</sub>)** Not applicable.

**Mobility in soil** No data available. Mobility is expected to be low in partially-saturated organic soil matrices

**Other adverse effects** Very toxic to aquatic life in high concentration with long lasting effects.

## 13. Disposal considerations

**Disposal instructions** Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.

**Local disposal regulations** Dispose in accordance with all applicable regulations.

**Hazardous waste code** The waste proper code should be assigned in discussion between the user, the producer and the waste disposal company. As packaged, this product may meet criteria defining RCRA corrosive (D002) hazardous wastes when disposed. (40 CFR Part 261, Subpart C)

**Waste from residues/unused product** 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** Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may contain product residue, follow label warnings even after container is emptied.

## 14. Transport information

### USDOT

<b>UN number</b>	UN1791
<b>UN proper shipping name</b>	Hypochlorite Solutions
<b>Transport hazard class(es)</b>	
<b>Class</b>	8
<b>Subsidiary risk</b>	-
<b>Packaging group</b>	III
<b>Marine pollutant</b>	No

**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** Not intended to be transported in bulk.

**DOT Label/Placard**



## 15. Regulatory information

### US federal regulations

**SARA 302 Extremely hazardous substance** Not listed.

**SARA 304 Emergency release notification** Not listed.

#### SARA 311/312 Hazard Categories

Immediate Hazard - Yes

Delayed Hazard – No

Fire Hazard – No

Pressure Hazard – No

Reactivity Hazard – No

**SARA 313 (TRI reporting)** Not listed

**California Proposition 65** **California Safe Drinking Water and Toxic Enforcement Act of 1986**  
 This product is not known to contain any chemicals currently listed as carcinogens or reproductive toxins under California Proposition 65 at levels which would be subject to threshold determination and Safe Harbor notification (1/2019)

## 16. Other information, including date of preparation or last revision

**Issue date** 2/20/2015  
**Revision date** 6/10/2015, 3/13/2019  
**Version #** 3  
**HMIS® ratings** Health: 3  
 Flammability: 1  
 Physical hazard: 1



**NFPA ratings** Health: 3  
 Flammability: 1  
 Instability: 1



**Disclaimer** The information provided in this Safety Data Sheet is correct to the best of our knowledge, and have been obtained from resources believed to be reliable. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered a warranty or quality specification. The information related only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified by the text.

**Revision information** 6/10/2015 Transportation information.  
 3-13-19 Fire response update; Physical data update; General format update, Prop 65 statement; Update toxicology and environmental fate information; PPE notations; Physical data update; miscellaneous text corrections; HMIS and NFPA pictograms inserted