# **SAFETY DATA SHEET**



### 1. Identification

Product Identifier Chlorine Sanitizer

Other means of identification

Product code CU-5430

**Recommended use**Bleaches and disinfects. **Recommended restrictions**Professional use only.

Manufacturer information

Company name Chemical Universe, Inc.

Address 1133 Saline St

North Kansas City MO 64116

**Telephone** (816) 471-3602 **Fax** (816) 474-3302

Emergency phone number PERS (800) 633-8253

24 hour Emergency (800) 633-8253

# 2. Hazard(s) Identification

Physical hazards Not classified.

**Health hazards** Serious eye damage Category 1

Skin corrosion Category 1

**Environmental hazards** Not classified.

OSHA defined hazards None

**Label elements** 



Signal word Danger

**Hazard statement** Causes severe skin burns and eye damage.

**Precautionary statement** 

**Prevention** Wash hands and exposed skin thoroughly after handling. Do not breathe dust or mists.

Wear protective gloves/protective clothing/eye protection/face protection.

**Response** IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off

immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. IF INHALED: 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). IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Storage Store locked up.

**Disposal** Dispose of contents/containers in accordance with local/regional/national/international

regulations.

Hazard(s) not otherwise

classified (HNOC)

None.

Supplemental information None.

# 3. Composition/information on ingredients

#### Mixtures

Chemical name	CAS number	%
Sodium hypochlorite	7681-52-9	10
Sodium hydroxide	1310-73-2	2-4

SDS US
Material Name: Chlorine Sanitizer
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#### 4. First-aid measures

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

Skin contact 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.

Eye contact 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.

Ingestion Rinse mouth. Get medical attention immediately. Do not induce vomiting.

Most important

symptoms/effects, acute and

delayed

Indication of immediate medical attention and special

treatment needed

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.

Provide general support measures and treat symptomatically. Keep victim under observation.

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

Symptoms may be delayed.

**General information** 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

Suitable extinguishing media

Unsuitable extinguishing

media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO<sub>2</sub>).

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from

the chemical

firefighters

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for

Fire-fighting

equipment/instructions

Specific methods Use standard firefighting procedures and consider the hazards of other involved materials. General fire hazards No unusual fire or explosion hazards noted.

Move containers from fire area if you can do so without risk.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

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.

Methods and materials for containment and cleaning up This product is miscible in water.

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, fleece). Clean surface thoroughly to remove residual contamination.

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

**Environmental precautions** Avoid discharge into 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)

**US ACGIH Threshold Limit Values** 

ComponentsTypeValueSodium hydroxideSTEL2 mg/m³

Biological limit values No information.

Appropriate engineering

controls

 ${\it Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates}$ 

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.

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.

# 9. Physical and chemical properties

**Appearance** 

Physical State Liquid.

**Color** Clear to light amber.

Odor Chlorine.

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 Not available
Vapor density Not available.

Specific gravity (water=1)1.23Solubility in waterSoluble.Partition coefficientNot available.

(n-octanol/water)

Auto-ignition temperatureNot available.Decomposition temperatureNot available.ViscosityNot available.

## 10. Stability and reactivity

**Reactivity** Reacts violently with strong acids. This product may react with oxidizing agents.

**Chemical stability** Material is stable under normal conditions. Store in a cool dark place.

Possibility of hazardous

Reacts violently with strong acids. This product may react with oxidizing agents. Hazardous

reactions

polymerization does not occur.

**Conditions to avoid** Avoid storage in elevated temperatures. Keep away from heat, sparks, and open flame. Do not

mix with other chemicals.

**Incompatible materials** Acids, oxidizing agents, bases, alkalis (organic)

**Hazardous decomposition** 

Chlorine, hydrogen chloride. In case of fire see section 5.

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# 11. Toxicological information

Information on likely routes

of exposure

products

**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.

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 Route and Species LD<sub>50</sub>

Chlorine Sanitizer (CAS mixture)

Acute

Oral, rat >5,000 mg/kg estimated

Skin corrosion/irritation Can cause severe skin burns.
Serious eye damage/ Can cause serious eye damage.

irritation

**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.

<sup>\*</sup>Estimates for product may be based on additional component data not shown

**Carcinogenicity** Not considered a carcinogen.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not Listed.

Reproductive toxicity
Specific target organ toxicity

No data available. No data available.

- single exposure

Specific target organ toxicity

No data available.

- repeated exposure

**Aspiration hazard** No data available.

# 12. Ecological information

#### **Ecotoxicity**

Product	Species	Test Results
Chlorine Sanitizer (CAS mixture)		
Aquatic		
Fish	(Unspecified)	$LC_{50} = 0.55 \text{ mg/L estimated}$
Crustacea	Daphnia Magna	$EC_{50} = 0.93 \text{ mg/L estimated}$

<sup>\*</sup>Estimates for product may be based on additional component data not shown

**Persistence and degradability** No data available.

**Bioaccumulative potential** Accumulation in aquatic organisms is expected.

Partition coefficient n-octanol/water (log Kow)

Not available.

Mobility in soil No data available.

Other adverse effects Very toxic to aquatic life 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 code should be assigned in discussion between the user, the producer and the

waste disposal company.

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

DOT

UN number UN1760

**UN proper shipping name** Corrosive Liquids, n.o.s. (Contains: Sodium Hypochlorite)

Transport hazard class(es)

Class 8
Subsidiary risk Packaging group III
Marine pollutant No

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

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

to Annex II of MARPOL 73/78 and the IBC Code DOT



# 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.

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

Issue date 1/7/2016 1/7/2016 **Revision date** 

Version #

HMIS® ratings Health: 3

Flammability: 1 Physical hazard: 1

Health: 3 NFPA ratings

> Flammability: 1 Instability: 1

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> 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** First issue