



# SAFETY DATA SHEET

Version 2

## 1. Identification of the Substance / Preparation and of the Company / Undertaking

**Product Name** Azone 15 - EPA Reg. No.7870-5  
**Product Code** 41245  
**UN/ID No** UN1791  
**Recommended Use** Industrial, Manufacturing or Laboratory use.  
**Restrictions on Use** None known  
**Manufacturer**  
 Hawkins, Inc.  
 2381 Rosegate  
 Roseville, MN 55113  
 (612) 331-6910  
**Emergency Telephone:**  
 CHEMTREC (US): 1-800-424-9300

## 2. Hazards Identification

### GHS - Classification

Skin corrosion/irritation	Category 1 Sub-category B
Serious eye damage/eye irritation	Category 1
Specific target organ toxicity (single exposure)	Category 3
Corrosive to metals	Category 1

### Hazards not otherwise classified (HNOC)

Not applicable

### Label elements



**Signal Word:** Danger

### Hazard Statements:

- Causes severe skin burns and eye damage
- May cause respiratory irritation
- May be corrosive to metals

### Precautionary Statements:

- Do not breathe dusts or mists
- Wash face, hands and any exposed skin thoroughly after handling
- Wear protective gloves/protective clothing/eye protection/face protection
- Use only outdoors or in a well-ventilated area
- Keep only in original container
- Immediately call a POISON CENTER or doctor/physician
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
- Wash contaminated clothing before reuse
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

- IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
- Absorb spillage to prevent material damage
- Store locked up
- Store in a well-ventilated place. Keep container tightly closed
- P406 - Store in corrosion resistant container with a resistant inner liner
- Dispose of contents/ container to an approved waste disposal plant

### 3. Composition / Information on Ingredients

Chemical name	CAS No.	Weight-%
Sodium hypochlorite	7681-52-9	12.3-13.9
Sodium chloride	7647-14-5	9-11
Sodium Hydroxide	1310-73-2	<1
Water	7732-18-5	Balance

Any concentration shown as a range is due to batch variation or the exact percentage has been withheld as a trade secret.

### 4. First Aid Measures

#### Description of first aid measures

<b>General advice</b>	Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.
<b>Inhalation</b>	Remove to fresh air. If breathing has stopped, give artificial respiration. Get medical attention immediately. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If breathing is difficult, (trained personnel should) give oxygen. Delayed pulmonary edema may occur. Get immediate medical advice/attention.
<b>Eye contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get immediate medical advice/attention.
<b>Skin contact</b>	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get immediate medical advice/attention.
<b>Ingestion</b>	Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Get immediate medical advice/attention.
<b>Self-protection of the first aider</b>	Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8). Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation.

#### **Most important symptoms and effects, both acute and delayed**

**Symptoms** Burning. Coughing and/ or wheezing. Redness. May cause blindness.

#### **Indication of any immediate medical attention and special treatment needed**

**Note to physicians** Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure.

### 5. Fire-fighting Measures

<b>Suitable Extinguishing Media</b>	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
<b>Large Fire</b>	CAUTION: Use of water spray when fighting fire may be inefficient.
<b>Unsuitable extinguishing media</b>	Do not scatter spilled material with high pressure water streams.
<b>Specific hazards arising from the chemical</b>	The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating gases and vapors.
<b>Hazardous combustion products</b>	Sodium oxides. Hydrogen chloride. Chlorine. Oxygen. Disodium oxide.
<b>Explosion Data</b>	

**Sensitivity to mechanical impact** None.  
**Sensitivity to static discharge** None.  
**Special protective equipment for fire-fighters** Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

**6. Accidental Release Measures**

**Personal precautions, protective equipment and emergency procedures**  
**Personal precautions** Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Attention! Corrosive material. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.  
**Other information** Refer to protective measures listed in Sections 7 and 8.  
**Methods and material for containment and cleaning up**  
**Methods for containment** Prevent further leakage or spillage if safe to do so.  
**Methods for cleaning up** Dike far ahead of liquid spill for later disposal. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Pick up and transfer to properly labeled containers. Clean contaminated surface thoroughly. After cleaning, flush away traces with water.

**7. Handling and Storage**

**Precautions for safe handling**  
**Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Handle product only in closed system or provide appropriate exhaust ventilation. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse.  
**Conditions for safe storage, including any incompatibilities**  
**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from moisture. Store locked up. Keep out of the reach of children. Store away from other materials.  
**Incompatible materials** Oxidizing agent. Acids. Ammonia. Organic material. Metals. Peroxides. Reducing agent.

**8. Exposure Controls / Personal Protection**

**Control parameters**  
**Exposure Limits** The following ingredients are the only ingredients of the product above the cut-off level (or level that contributes to the hazard classification of the mixture) which have an exposure limit applicable in the region for which this safety data sheet is intended or other recommended limit. At this time, the other relevant constituents have no known exposure limits from the sources listed here.

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Sodium Hydroxide 1310-73-2	Ceiling: 2 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup> (vacated) Ceiling: 2 mg/m <sup>3</sup>	IDLH: 10 mg/m <sup>3</sup> Ceiling: 2 mg/m <sup>3</sup>

**Exposure Guidelines** Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).  
**Appropriate engineering controls**  
**Engineering controls** Showers  
 Eyewash stations  
 Ventilation systems.  
**Individual protection measures, such as personal protective equipment**  
**Eye/face protection** Face protection shield. Tight sealing safety goggles.  
**Hand protection** Wear suitable gloves. Impervious gloves.  
**Skin and body protection** Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron.  
**Respiratory protection** No protective equipment is needed under normal use conditions. If exposure limits are

<b>Environmental exposure controls</b>	exceeded or irritation is experienced, ventilation and evacuation may be required.
<b>General hygiene considerations</b>	Do not allow into any sewer, on the ground or into any body of water. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Regular cleaning of equipment, work area and clothing is recommended. Avoid contact with skin, eyes or clothing. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Contaminated work clothing should not be allowed out of the workplace. Wash hands before breaks and immediately after handling the product.

## 9. Physical and Chemical Properties

### 9.1. Information on basic physical and chemical properties

<b>Physical State:</b>	Liquid	<b>Odor:</b>	Chlorine-like odor
<b>Appearance:</b>	Clear	<b>Odor Threshold:</b>	No information available
<b>Color:</b>	Colorless to yellowish		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
<b>pH:</b>	10	pH Range: >10
<b>Salt Out Point:</b>		No information available
<b>Melting Point/Freezing Point:</b>	-21 °C / -6 °F	
<b>Boiling Point/Boiling Range:</b>		No information available
<b>Flash Point:</b>		No information available
<b>Evaporation Rate (BuAc=1):</b>		No information available
<b>Flammability (solid, gas)</b>		No information available
<b>Flammability Limits in Air:</b>		No information available
<b>Upper Flammability Limit:</b>		<b>Lower Flammability Limit:</b>
<b>Vapor Pressure (mm Hg):</b>		No information available
<b>Vapor density (Air =1)</b>		No information available
<b>Specific Gravity (H<sub>2</sub>O=1):</b>	1.23	
<b>Specific Gravity (2nd value):</b>		
<b>Water Solubility:</b>	100% soluble in water	
<b>Solubility(ies):</b>		No information available
<b>Partition Coefficient (n-octanol/water)</b>		No information available
<b>Autoignition Temperature:</b>		No information available
<b>Decomposition Temperature:</b>		No information available
<b>Kinematic Viscosity:</b>		No information available
<b>Dynamic Viscosity:</b>		No information available
<b>Oxidizing Properties:</b>	No information available	
<b>Explosive Properties:</b>	Containers of this material can explode as oxygen is liberated under high heat or fire conditions. Reacts to form explosive products with amines, ammonia or ammonium salts, methanol, aziridine. Explosive reaction with formic acid (@ 55°C), phenyl acetonitrile, ethylene amine	

### 9.2. Other information

<b>Softening Point:</b>	No information available
<b>Molecular Weight:</b>	74.44
<b>VOC Content(%):</b>	No information available
<b>Liquid Density</b>	No information available
<b>Bulk density</b>	No information available

## 10. Stability and Reactivity

<b>Reactivity</b>	No information available.
<b>Chemical stability</b>	Stable under normal conditions.
<b>Possibility of hazardous reactions</b>	None under normal processing.
<b>Conditions to avoid</b>	Exposure to air or moisture over prolonged periods.
<b>Incompatible materials</b>	Oxidizing agent. Acids. Ammonia. Organic material. Metals. Peroxides. Reducing agent.
<b>Hazardous decomposition products</b>	Thermal decomposition can lead to release of irritating and toxic gases and vapors. Sodium oxides. Disodium oxides. Hydrogen chloride. Oxygen. Chlorine.

**11. Toxicological Information****Information on likely routes of exposure****Product Information****Inhalation**

Specific test data for the substance or mixture is not available. Corrosive by inhalation. (based on components). Inhalation of corrosive fumes/gases may cause coughing, choking, headache, dizziness, and weakness for several hours. Pulmonary edema may occur with tightness in the chest, shortness of breath, bluish skin, decreased blood pressure, and increased heart rate. Inhaled corrosive substances can lead to a toxic edema of the lungs. Pulmonary edema can be fatal.

**Eye contact**

Specific test data for the substance or mixture is not available. Causes burns. (based on components). Corrosive to the eyes and may cause severe damage including blindness. Causes serious eye damage. May cause irreversible damage to eyes.

**Skin contact**

Specific test data for the substance or mixture is not available. Causes severe burns.

**Ingestion**

Specific test data for the substance or mixture is not available. Causes burns. (based on components). Ingestion causes burns of the upper digestive and respiratory tracts. May cause severe burning pain in the mouth and stomach with vomiting and diarrhea of dark blood. Blood pressure may decrease. Brownish or yellowish stains may be seen around the mouth. Swelling of the throat may cause shortness of breath and choking. May cause lung damage if swallowed. May be fatal if swallowed and enters airways.

**Symptoms related to the physical, chemical and toxicological characteristics****Symptoms**

Redness. Burning. May cause blindness. Coughing and/ or wheezing.

**Numerical measures of toxicity**

No information available

**Acute Toxicity:**

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral) 12,042.90 mg/kg

ATEmix (dermal) 41,796.80 mg/kg

**Unknown Acute toxicity**

25.9 % of the mixture consists of ingredient(s) of unknown toxicity

0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

11 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

25.9 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

25.9 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

25.9 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

**Component Information**

Chemical name	Oral LD <sub>50</sub> :	Dermal LD <sub>50</sub> :	LC <sub>50</sub> (Lethal Concentration):
Sodium hypochlorite 7681-52-9	= 8.91 g/kg ( Rat )	> 10000 mg/kg ( Rabbit )	-
Sodium chloride 7647-14-5	= 3 g/kg ( Rat )	-	> 42 g/m <sup>3</sup> ( Rat ) 1 h
Sodium Hydroxide 1310-73-2	= 325 mg/kg ( Rat )	= 1350 mg/kg ( Rabbit )	-
Water 7732-18-5	> 90 mL/kg ( Rat )	-	-

**Delayed and immediate effects as well as chronic effects from short and long-term exposure****Skin corrosion/irritation**

Causes severe burns.

**Serious eye damage/eye irritation**

Classification based on data available for ingredients. Causes burns. Risk of serious damage to eyes.

**Respiratory or skin sensitization**

No information available.

**Germ cell mutagenicity**

No information available.

**Carcinogenicity**

See section 2 for classified hazards based on component information.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA
Sodium hypochlorite 7681-52-9	-	Group 3	-	-

**IARC (International Agency for Research on Cancer)**  
Group 3 - Not Classifiable as to Carcinogenicity in Humans

<b>Reproductive toxicity</b>	No information available.
<b>STOT - single exposure</b>	No information available.
<b>STOT - repeated exposure</b>	No information available.
<b>Target Organ Effects:</b>	Respiratory system, Eyes, Skin.
<b>Other Adverse Effects:</b>	No information available.
<b>Aspiration hazard</b>	No information available.

## 12. Ecological Information

**Ecotoxicity** The environmental impact of this product has not been fully investigated.

Chemical name	Toxicity to algae	Toxicity to fish	Toxicity to microorganisms	Toxicity to daphnia and other aquatic invertebrates
Sodium hypochlorite 7681-52-9	-	0.06 - 0.11: 96 h Pimephales promelas mg/L LC50 flow-through 4.5 - 7.6: 96 h Pimephales promelas mg/L LC50 static 0.4 - 0.8: 96 h Lepomis macrochirus mg/L LC50 static 0.28 - 1: 96 h Lepomis macrochirus mg/L LC50 flow-through 0.05 - 0.771: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 0.03 - 0.19: 96 h Oncorhynchus mykiss mg/L LC50 semi-static 0.18 - 0.22: 96 h Oncorhynchus mykiss mg/L LC50 static	-	0.033 - 0.044: 48 h Daphnia magna mg/L EC50 Static
Sodium chloride 7647-14-5	-	5560 - 6080: 96 h Lepomis macrochirus mg/L LC50 flow-through 12946: 96 h Lepomis macrochirus mg/L LC50 static 6020 - 7070: 96 h Pimephales promelas mg/L LC50 static 7050: 96 h Pimephales promelas mg/L LC50 semi-static 6420 - 6700: 96 h Pimephales promelas mg/L LC50 static 4747 - 7824: 96 h Oncorhynchus mykiss mg/L LC50 flow-through	-	1000: 48 h Daphnia magna mg/L EC50 340.7 - 469.2: 48 h Daphnia magna mg/L EC50 Static
Sodium Hydroxide	-	45.4: 96 h Oncorhynchus	-	-

1310-73-2	mykiss mg/L LC50 static
-----------	-------------------------

**Ceriodaphnia dubia Acute Toxicity Evaluation:** Azone 15: 48-hour NOEC: 0.25 ppm, 48-hour LOEC: 0.5 ppm, 48-hour LC<sub>50</sub>: 0.44 ppm (0.37 - 0.52 ppm)

**Persistence and Degradability:** No information available.

**Bioaccumulation:** There is no data for this product.

**Other Adverse Effects:** No information available.

### 13. Disposal Considerations

#### Waste treatment methods

**Waste from residues/unused products** Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

**Contaminated packaging** Do not reuse empty containers.

### 14. Transport Information

#### DOT

**Proper shipping name** HYPOCHLORITE SOLUTIONS (SODIUM HYPOCHLORITE)

**Hazard Class** 8

**UN/ID No** UN1791

**Packing Group** III

**Description** UN1791, HYPOCHLORITE SOLUTIONS (SODIUM HYPOCHLORITE), 8, PG III, MARINE POLLUTANT



### 15. Regulatory Information

#### International Inventories

**AICS** Complies

**TSCA** Complies

**DSL/NDSL** Complies

**EINECS/ELINCS** Complies

**ENCS** Complies

**IECSC** Complies

**KECL** Complies

**PICCS** Complies

Chemical name	AICS	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS
Sodium hypochlorite	Present	Present ACTIVE	Present	-	Present	-	Present	Present [05289]	Present	Present
Sodium chloride	Present	Present ACTIVE	Present	-	Present	-	Present	Present [24102]	Present	Present
Sodium Hydroxide	Present	Present ACTIVE	Present	-	Present	-	Present	Present [27689]	Present	Present
Water	Present	Present	Present	-	Present	-	Present	Present	Present	Present

		ACTIVE						[32224]		
--	--	--------	--	--	--	--	--	---------	--	--

**Inventory Legend**

- AICS** - Australian Inventory of Chemical Substances
- TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory
- DSL/NDL** - Canadian Domestic Substances List/Non-Domestic Substances List
- EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
- ENCS** - Japan Existing and New Chemical Substances
- IECSC** - China Inventory of Existing Chemical Substances
- KECL** - Korean Existing and Evaluated Chemical Substances
- PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**RESTRICTIONS - REACH TITLE VII** No information available

**US Federal Regulations**

**CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	SARA Extremely Hazardous Substances TPQ
Sodium hypochlorite	100 lb	-	-
Sodium Hydroxide	1000 lb	-	-

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

**SARA 311/312 Hazard Categories**

- Acute health hazard** Yes
- Chronic health hazard** No
- Fire hazard** No
- Sudden release of pressure hazard** No
- Reactive hazard** No

**16. Other Information**

**NSF/ANSI 60 Certification**



- Maximum Use (mg/L unless otherwise indicated):** 40
- Prepared By:** HSE Department
- Issue Date:** 15-Mar-2013
- Revision Date:** 27-May-2020
- Revision Note:** Reviewed and Re-issued



**Disclaimer:**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. 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 relates 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 in the text.

**End of Safety Data Sheet**