

SECTION 1: Identification**1.1. Identification**

Product name : KC-615
Product code : 20075
EPA Registration # : 63679-1

1.2. Recommended use

Use of the substance/mixture : Sanitizer and Disinfectant
Uses advised against : This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. Follow the directions for use on the pesticide label when applying this product.

1.3. Supplier

Safe Foods Chemical Innovations
1501 East 8th Street
North Little Rock, AR, 72114
T 501-758-8500 - F 501-663-8952

1.4. Emergency telephone number

Emergency number : Chemtrec 1-800-424-9300

SECTION 2: Hazard(s) identification**2.1. Classification of the substance or mixture****GHS US classification**

Acute toxicity (dermal) Category 4	Harmful in contact with skin
Skin corrosion/irritation Category 1	Causes severe skin burns and eye damage
Serious eye damage/eye irritation Category 1	Causes serious eye damage
Hazardous to the aquatic environment – Acute Hazard Category 1	Very toxic to aquatic life
Hazardous to the aquatic environment – Chronic Hazard Category 1	Very toxic to aquatic life with long lasting effects

2.2. GHS Label elements, including precautionary statements**GHS US labeling**

Hazard pictograms (GHS US) :



Signal word (GHS US) : Danger
Hazard statements (GHS US) : Harmful in contact with skin
Causes severe skin burns and eye damage
Very toxic to aquatic life with long lasting effects
Precautionary statements (GHS US) : Do not breathe dust/fume/gas/mist/vapors/spray.
Wash hands, forearms and face thoroughly after handling.
Avoid release to the environment.
Wear protective gloves/protective clothing/eye protection/face protection.
IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
IF ON SKIN (OR HAIR): Take off immediately all contaminated clothing. Rinse skin with

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water/shower. Wash with plenty of water. Wash contaminated clothing before reuse.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
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 or doctor.
Specific treatment (see supplemental first aid instruction on this label).
Collect spillage.
Store locked up.
Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

12% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral)

SECTION 3: Composition/Information on ingredients

Name	Product identifier	%
Sodium hypochlorite	CAS-No.: 7681-52-9	12.5 – 13
Sodium hydroxide	CAS-No.: 1310-73-2	0.5 – 2

SECTION 4: First-aid measures

4.1. Description of first aid measures

- First-aid measures general : Have the product container, label, or SDS with you when calling a poison control center or doctor, or going for treatment.
- First-aid measures after inhalation : Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for treatment advice.
- First-aid measures after skin contact : Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Call a physician immediately.
- First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.
- First-aid measures after ingestion : Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

4.2. Most important symptoms and effects (acute and delayed)

- Symptoms/effects after inhalation : Although no appropriate human or animal health effects data are known to exist, this material is expected to be an inhalation hazard.
- Symptoms/effects after skin contact : Burns.
- Symptoms/effects after eye contact : Serious damage to eyes.
- Symptoms/effects after ingestion : Burns.

4.3. Immediate medical attention and special treatment, if necessary

Probable mucosal damage may contraindicate the use of gastric lavage.

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SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

Unsuitable extinguishing media : No data available

5.2. Specific hazards arising from the chemical

Fire hazard : No fire hazard.

Explosion hazard : No direct explosion hazard.

Hazardous decomposition products in case of fire : Chlorine gas released on contact with acids, or during thermal decomposition. Carbon monoxide. Carbon dioxide (CO₂).

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection.

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Stop leak if safe to do so. Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material-damage.

6.1.1. For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.

Emergency procedures : Ventilate spillage area. Avoid contact with skin, eyes and clothing. Do not breathe dust/fume/gas/mist/vapors/spray.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

Emergency procedures : Evacuate unnecessary personnel. Stop leak if safe to do so.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment : Collect spillage. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak, if possible without risk.

Methods for cleaning up : Take up liquid spill into absorbent material.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : Not expected to present a significant hazard under anticipated conditions of normal use.

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Precautions for safe handling	: Ensure good ventilation of the work station. Do not get in eyes, on skin, or on clothing. Wear personal protective equipment. Do not breathe dust/fume/gas/mist/vapors/spray.
Hygiene measures	: Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures	: Keep in a cool, well-ventilated place away from heat.
Storage conditions	: Store locked up.
Packaging materials	: Always store product in container of same material as original container.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Name	USA - ACGIH - Occupational Exposure Limits	USA - OSHA - Occupational Exposure Limits	USA - NIOSH - Occupational Exposure Limits
Sodium hydroxide (1310-73-2)	OEL C: 2 mg/m ³	PEL TWA: 2 mg/m ³	-

8.2. Appropriate engineering controls

Appropriate engineering controls	: Ensure good ventilation of the work station.
Environmental exposure controls	: Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Wear recommended personal protective equipment.

Hand protection:	Protective Neoprene™ gloves or rubber gloves
Eye protection:	Splash proof chemical goggles and face shield
Skin and body protection:	Wear suitable protective clothing. Rubber boots recommended
Respiratory protection:	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or if irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Colorless to pale yellow liquid.
Color	: Colorless light yellow
Odor	: chlorine-like
Odor threshold	: No data available
pH	: 13
Melting point	: -24.4 C / -12 F
Freezing point	: -24.4 C / -12 F
Boiling point	: 107 °C
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Not applicable.
Vapor pressure	: 7.5
Relative vapor density at 20°C	: No data available

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Relative density	: No data available
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

9.2. Other information

VOC content : 0 %

SECTION 10: Stability and reactivity

10.1. Reactivity

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

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

Acids. Amphoteric metals (aluminum, copper, zinc). Oxidizers. Reducing agent. Ammonia. Ether.

10.6. Hazardous decomposition products

HOCL, Chlorine, HCL, NACL, Sodium Chlorate, and oxygen which depend on pH, temperature and time.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Harmful in contact with skin.
Acute toxicity (inhalation)	: Not classified

Name	LD50 Oral	LD50 Dermal	LC50 Inhalation	ATE (US)
KC-615	-	-	-	Dermal: 1350 mg/kg body weight
Sodium hypochlorite (7681-52-9)	8800 mg/kg, rat	> 20000 mg/kg body weight, rabbit	> 10.5 mg/l, rat, vapours	Oral: 8800 mg/kg body weight
Sodium hydroxide (1310-73-2)	-	1350 mg/kg, rabbit	-	Dermal: 1350 mg/kg body weight

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Skin corrosion/irritation	: Causes severe skin burns. pH: 13
Serious eye damage/irritation	: Causes serious eye damage. pH: 13
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified

Name	ACGIH	IARC	NTP	OSHA
Sodium hypochlorite (7681-52-9)	-	3 - Not classifiable	-	-

Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Viscosity, kinematic	: No data available

SECTION 12: Ecological information

12.1. Toxicity

Ecology – general : Very toxic to aquatic life with long lasting effects.

Name	Fish	Crustacea	Other Aquatic Organisms
Sodium hypochlorite (7681-52-9)	LC50 [1]: 0.033 – 0.097 mg/l	EC50 [1]: 141 µg/l EC50 [2]: 35 µg/l	EC50 72h Algae [1]: 0.0365 mg/l EC50 72h Algae [2]: 0.0183 mg/l
Sodium hydroxide (1310-73-2)	LC50 [1]: 189 mg/l	EC50 [1]: 40 mg/l	-

12.2. Persistence and degradability

Name	Persistence and degradability
KC-615	Not rapidly degradable
Sodium hypochlorite (7681-52-9)	Biodegradability not applicable
Sodium hydroxide (1310-73-2)	Biodegradability not applicable

12.3. Bioaccumulative potential

Name	Bioaccumulative Potential
Sodium hypochlorite (7681-52-9)	Does not contain bioaccumulative component(s).
Sodium hydroxide (1310-73-2)	Not bioaccumulative.

12.4. Mobility in soil

Name	Soil Ecology
Sodium hypochlorite (7681-52-9)	Contains component(s) with potential for mobility in the soil. May be harmful to plant growth, blooming and fruit formation.
Sodium hydroxide (1310-73-2)	No (test)data on mobility of the substance available.

12.5. Other adverse effects

No additional information available

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SECTION 13: Disposal considerations






13.1. Disposal methods

Regional waste regulation	: Disposal must be done according to official regulations.
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Sewage disposal recommendations	: Disposal must be done according to official regulations.
Product/Packaging disposal recommendations	: Disposal must be done according to official regulations.
Additional information	: Do not re-use empty containers.
California Hazardous Waste Status	: This product contains one or more substances that are listed with the State of California as a hazardous waste

Chemical Name	California Hazardous Waste Status
Sodium hydroxide (1310-73-2)	Toxic, Corrosive

SECTION 14: Transport information

In accordance with DOT / TDG / IMDG / IATA

DOT	TDG	IMDG	IATA
14.1. UN number			
1791	UN1791	1791	Not regulated
14.2. Proper Shipping Name			
Hypochlorite solutions	HYPOCHLORITE SOLUTION	HYPOCHLORITE SOLUTION	Not regulated
14.3. Transport hazard class(es)			
8	8	8	Not regulated
	 	 	Not regulated
14.4. Packing group			
III	III	III	Not regulated
14.5. Environmental hazards			
Dangerous for the environment: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes Marine pollutant: Yes	Not regulated
No supplementary information available			

SECTION 15: Regulatory information

15.1. US Federal regulations

Commercial status of components according to the United States Environmental Protection Agency's Toxic Substances Control Act (TSCA):

Name	CAS-No.	Listing	Commercial status	Flags
Sodium hypochlorite	7681-52-9	Present	Active	
Sodium hydroxide	1310-73-2	Present	Active	

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This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

Name	CERCLA RQ
Sodium hypochlorite (7681-52-9)	100 lb
Sodium hydroxide (1310-73-2)	1000 lb

15.2. International regulations

Name	Inventory
Sodium hypochlorite (7681-52-9)	Listed on the Canadian DSL (Domestic Substances List) Listed on INSQ (Mexican National Inventory of Chemical Substances)
Sodium hydroxide (1310-73-2)	Listed on the Canadian DSL (Domestic Substances List) Listed on INSQ (Mexican National Inventory of Chemical Substances)

15.3. US State regulations

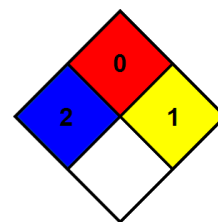
California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

SECTION 16: Other information

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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Supersedes : 7/29/2024

NFPA health hazard : 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.
NFPA fire hazard : 0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.
NFPA reactivity : 1 - Materials that in themselves are normally stable but can become unstable at elevated temperatures and pressures.



Hazard Rating
Health : 2 Moderate Hazard - Temporary or minor injury may occur
Flammability : 0 Minimal Hazard - Materials that will not burn
Physical : 1 Slight Hazard - Materials that are normally stable but can become unstable (self-react) at high temperatures and pressures. Materials may react non-violently with water or undergo hazardous polymerization in the absence of inhibitors.
Personal protection : D - Face shield and eye protection, Gloves, Synthetic apron

Safety Data Sheet (SDS), USA - SFCI

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.