

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Name KC-631

Other means of identification

Product Code 20492

Recommended use of the chemical and restrictions on use

Recommended Use Acid sanitizer and disinfectant

Uses advised against Follow the directions for use on the label when applying this product

Details of the supplier of the safety data sheet

Manufacturer Address

Safe Foods Chemical Innovations
1501 E. 8th Street
North Little Rock, AR 72114

Emergency telephone number

Company Phone Number 501-758-8500
Emergency Telephone Chemtrec 1-800-424-9300

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Oral	Category 4
Skin corrosion/irritation	Category 1-B
Serious eye damage/eye irritation	Category 1
Acute toxicity - Dermal	Category 4

Label elements

Emergency Overview

Danger

Hazard statements

Harmful if swallowed
Harmful in contact with skin
Causes severe skin burns and eye damage



Physical state Liquid

Color Clear, Red

Odor Mild

Precautionary Statements - Prevention

Do not get in eyes, on skin, or on clothing
Wash affected areas thoroughly after handling
Do not eat, drink, or smoke when using this product
Wear protective gloves and eye, face, and foot protection

Precautionary Statements - Response

Specific treatment is urgent (see Section 4 on SDS)
IF SWALLOWED: Rinse mouth. Call a POISON CENTER or doctor/physician if you feel unwell. Do NOT induce vomiting.
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 immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse.
IF INHALED: Remove person to fresh air and keep comfortable for breathing and keep at rest in a position comfortable for breathing.
Immediately call a POISON CENTER or doctor/physician.

Precautionary Statements - Storage

Keep container tightly closed. Keep only in original container.

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Not Applicable

Other Information

- Very toxic to aquatic life with long lasting effects

3. COMPOSITION/INFORMATION ON INGREDIENTS		
Chemical Name	CAS No.	weight-%
Water	7732-18-5	40-50
Phosphoric acid	7664-38-2	29.3-31.1
Alkyl (C14, 50%; C12, 40%; C16-10%) Dimethyl Benzyl Ammonium Chloride	68424-85-1	9.5-10.5
Octyl Decyl Dimethyl Ammonium Chloride	32426-11-2	
Didecyl Dimethyl Ammonium Chloride	7173-51-5	
Diocetyl Dimethyl Ammonium Chloride	5538-94-3	
Alcohols, C9-11 ethoxylate	68439-46-3	1-5
Trade Secret	Proprietary	0.5-2
FD&C Red #40	25956-17-6	<1

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

First aid measures

- General advice** Show this material safety data sheet to medical personnel. Do not leave affected person unattended. Isolate exposed apparel for laundry before re-use.
- Eye contact** Rinse eyes with water. Remove any contact lenses, and continue flushing eyes with running water for at least 15 minutes. Hold eyelids apart to ensure rinsing of the entire surface of the eyes and lids with water. Seek medical attention if irritation develops or persists.
- Skin contact** Take off contaminated clothing and shoes immediately. Wash affected areas with plenty of water. Seek medical attention if irritation develops or persists.
- Inhalation** Remove from area to fresh air. Seek medical attention if respiratory irritation develops or if breathing becomes difficult.
- Ingestion** Do NOT induce vomiting. Do not give anything by mouth to an unconscious or convulsing person. Rinse mouth with water. Seek medical attention.

Most important symptoms and effects, both acute and delayed

Symptoms See Section 11 for symptom information.

Indication of any immediate medical attention and special treatment needed

Note to physicians All treatments should be based on observed signs and symptoms of distress in the patient. Probable mucosal damage may contraindicate the use of gastric lavage. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred. Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

The product is not flammable. Use media suitable for the material that is burning.

Unsuitable extinguishing media None.

Specific hazards arising from the chemical

Container may rupture on heating.

Hazardous combustion products May include carbon oxides, nitrogen oxides.

Explosion data

Sensitivity to Mechanical Impact None.

Sensitivity to Static Discharge None.

Protective equipment and precautions for firefighters

As in any fire, wear NIOSH/MSHA approved, pressure-demand self-contained breathing apparatus and full protective gear. No special methods required. Move containers from area if it can be done without risk. Cool fire-exposed containers with water from side. Contain the extinguishing fluids by diking.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Use personal protection recommended in Section 8. Ensure adequate ventilation, especially in confined areas.

For emergency responders Isolate area. Keep unnecessary personnel away.

Environmental precautions

Environmental precautions Avoid contact of spilled material and runoff with soil and surface waterways.

Methods and material for containment and cleaning up

Methods for containment Stop leak if safe to do so. Absorb spills with vermiculite, fuller's earth, or sand. Shovel up and place in a non-metal waste container for disposal. Dike large spills with soil or sandbags to contain it and prevent its spread. Keep in suitable, properly labeled, closed containers for disposal.

Methods for cleaning up Wash non-recoverable remainder with large amounts of water. Clean contaminated surfaces thoroughly. Recover the cleaning water for subsequent disposal. Dispose of in accordance with local regulations.

7. HANDLING AND STORAGE

Precautions for safe handling
Advice on safe handling Wear appropriate protective equipment recommended in Section 8. Handle in accordance with good industrial hygiene and safety practice. Do not spray toward face. Wash affected areas after use. Do not taste or swallow. Avoid breathing vapors or mists. Use only with adequate ventilation. Product residue may remain on/in empty containers. All precautions for handling the product must be used in handling the empty container and residue.

Conditions for safe storage, including any incompatibilities
Storage Conditions Keep container tightly closed. Opened containers must be carefully resealed and kept upright to prevent leakage.

Incompatible materials See Section 10.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters
Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Phosphoric acid 7664-38-2	TWA: 1 mg/m ³ STEL: 3 mg/m ³	TWA (8 hr): 1 mg/m ³ (vacated) STEL: 3 mg/m ³	IDLH: 1000 mg/m ³ TWA: 1 mg/m ³ STEL: 3 mg/m ³

Appropriate engineering controls
Engineering Controls Good general ventilation should be sufficient to control airborne levels. Respiratory protection is not required if good ventilation is maintained.

Individual protection measures, such as personal protective equipment
Eye/face protection Wear chemical splash goggles.
Hand protection Wear long chemical resistant gloves. Observe instructions regarding permeability and breakthrough time provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion and contact time. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.
Skin and body protection Wear footwear protecting against chemicals, and impervious clothing. Choose body protection according to the amount and concentration of the substances in the workplace.
Respiratory protection In operations where mists are generated, wear a NIOSH/MSHA approved respirator that has been selected by a technically qualified person for the specific work conditions.
General Hygiene Considerations Do not store, use, and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored. Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet. Wash exposed skin promptly to remove accidental splashes or contact with material

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	Liquid	Odor	Mild
Appearance	Aqueous solution	Odor threshold	No information available
Color	Clear, Red		
Property	Values	Remarks • Method	
pH	1.0	±1 @ 21°C	
Melting point / freezing point	< -7 °C / < 20 °F		
Boiling point / boiling range	> 100 °C		
Flash point	Does not flash		
Evaporation rate	No information available		
Flammability (solid, gas)	Not applicable		
Flammability Limit in Air			
Upper flammability limit:	No information available		
Lower flammability limit:	No information available		
Vapor pressure	No information available		
Vapor density	No information available		

Specific Gravity	1.1476 g/cc
Water solubility	Soluble in water
Solubility in other solvents	No information available
Partition coefficient	No information available
Autoignition temperature	No information available
Decomposition temperature	No information available
Viscosity	Low viscosity
Explosive properties	No information available
Oxidizing properties	No information available
VOC Content (%)	0.128% (0.125 lbs/gal)
Density	9.76 pounds per gallon (25 °C)

10. STABILITY AND REACTIVITY

Reactivity

No data available

Chemical stability

Stable and non-reactive under normal conditions of use, storage and transport.

Possibility of Hazardous Reactions

None under normal processing. Do not mix with bleach or other chlorinated products.

Conditions to avoid

Avoid contact with bleach or other chlorinated products. Avoid contact with alkalis.

Incompatible materials

Anionic surfactants, metals, strong bases

Hazardous Decomposition Products

Oxides of carbon and nitrogen

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Inhalation	May cause irritation and corrosive effects to nose, throat and respiratory tract. Symptoms may include coughing and difficulty breathing.
Eye contact	Corrosive. Causes serious eye damage. Symptoms may include pain, burning sensation, redness, watering, blurred vision or loss of vision.
Skin contact	Corrosive. Causes severe burns. Symptoms may include burns, blisters, redness and pain (which may be delayed).
Ingestion	Harmful if swallowed. Causes burns/serious damage to mouth, throat and stomach. Symptoms may include vomiting, nausea, and/or feeling of general unwellness.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Water 7732-18-5	> 90 mL/kg (Rat)	-	-
Phosphoric acid 7664-38-2	= 1530 mg/kg (Rat)	= 2740 mg/kg (Rabbit)	> 850 mg/m ³ (Rat) 1 h
Alkyl (C14, 50%; C12, 40%; C16-10%) Dimethyl Benzyl Ammonium Chloride 68424-85-1	= 426 mg/kg (Rat)	-	-
Octyl Decyl Dimethyl Ammonium Chloride 32426-11-2	= 238 mg/kg	= 3342 mg/kg	-
Didecyl Dimethyl Ammonium Chloride 7173-51-5	= 84 mg/kg (Rat)	= > 1000 mg/kg (Rat)	-
Diocetyl Dimethyl Ammonium Chloride 5538-94-3	= 238 mg/kg	= 3342 mg/kg	-
Alcohols, C9-11 ethoxylate 68439-46-3	= 1400 mg/kg (Rat)	-	-
Trade Secret	> 90 mL/kg (Rat)	-	-
FD&C Red #40 25956-17-6	> 10 g/kg (Rat)	= 10000 mg/kg (Rabbit)	-

Information on toxicological effects

Symptoms

No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization

No known effects

Germ cell mutagenicity No information available
Carcinogenicity This product does not contain any ingredient designated as probable or suspected human carcinogens by IARC, ACGIH
Reproductive toxicity No information available
STOT - single exposure No information available
STOT - repeated exposure No information available
Aspiration hazard No information available

Numerical measures of toxicity - Product Information

Unknown Acute Toxicity 13.1 % of the mixture consists of ingredient(s) of unknown toxicity
 The following values are calculated based on chapter 3.1 of the GHS document
Oral LD50 15,566.70 mg/kg
Mist 0.460 mg/l

12. ECOLOGICAL INFORMATION

Ecotoxicity

Very toxic to aquatic life with long lasting effects

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Didecyl Dimethyl Ammonium Chloride 7173-51-5	-	0.97: 96 h Danio rerio mg/L LC50 semi-static	-

Persistence and degradability

No information available.

Bioaccumulation

No bioaccumulation is to be expected (log Pow<=4).

Mobility

Soluble in water.

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 product.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes

Disposal should be in accordance with applicable regional, national, and local laws and Regulations.

Contaminated packaging

Dispose of in accordance with federal, state and local regulations.

Chemical Name	California Hazardous Waste Status
Phosphoric acid 7664-38-2	Corrosive

14. TRANSPORT INFORMATION

DOT

UN/ID No. 1903
Proper shipping name Disinfectants, liquid, corrosive, n.o.s. (contains quaternary ammonium compound)
Hazard Class 8
Packing Group II
Emergency Response Guide Number 153

15. REGULATORY INFORMATION

International Inventories

TSCA Complies
DSL/NDSL Complies
EINECS/ELINCS No information available

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

US Federal Regulations

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

CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Phosphoric acid 7664-38-2	5000 lb	-	-	X

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	CERCLA/SARA RQ	Reportable Quantity (RQ)
Phosphoric acid 7664-38-2	5000 lb	-	RQ 5000 lb final RQ RQ 2270 kg final RQ

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Phosphoric acid 7664-38-2	X	X	X

U.S. EPA Label Information

EPA Pesticide Registration Number 10324-67-63679

16. OTHER INFORMATION

NFPA	Health hazards 3	Flammability 0	Instability 0	Physical and Chemical Properties Corrosive, Acid Personal protection B (Safety glasses, gloves)
HMIS	Health hazards 3	Flammability 0	Physical hazards 0	

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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 health hazards given on this SDS apply to this product in its concentrated form (as supplied) and may differ significantly at use dilution. The signs and symptoms of exposure apply only to negligence in handling or misuse of the concentrated product and not to the routine exposure of the diluted product under conditions of ordinary use.

End of Safety Data Sheet