

SAFETY DATA SHEET

Revision Date 19-Jan-2023 Version 1

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

Product identifier

Product Name KC-475

Other means of identification

Product Code 20180

Recommended use of the chemical and restrictions on use **Recommended Use** Phosphoric acid, 75%

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 - Inhalation (Dusts/Mists) | Ca | ategory 2 | |
|---|----|-----------|--|
| Skin corrosion/irritation | Ca | ategory 1 | |
| Serious eye damage/eye irritation | Ca | ategory 1 | |

Label elements

Emergency Overview

Danger

Hazard statements

Fatal if inhaled

Causes severe skin burns and eye damage



Appearance Aqueous solution Odor None Physical state Liquid

Precautionary Statements - Prevention

Do not breathe dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

Wear respiratory protection

Wash face, hands and any exposed skin thoroughly after handling

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

Precautionary Statements - Response

Specific treatment is urgent (see Section 4 on SDS)

Immediately call a poison center or doctor

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

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 or doctor

IF SWALLOWED: Rinse mouth. DO NOT induce vomiting

Precautionary Statements - Storage

Store in a well-ventilated place. Keep container tightly closed. Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

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Hazards not otherwise classified (HNOC)

Not Applicable

Other Information

- · May be harmful if swallowed
- · May be harmful in contact with skin
- · Toxic to aquatic life with long lasting effects

| 3. COMPOSITION/INFORMATION ON INGREDIENTS | | | | | |
|---|-----------|-------|--|--|--|
| Chemical Name CAS No. weight-% | | | | | |
| Phosphoric acid | 7664-38-2 | 70-80 | | | |
| Water | 7732-18-5 | 20-30 | | | |

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

4. FIRST AID MEASURES

First aid measures

Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, Eye contact

after first 5 minutes, then continue rinsing eye. Seek immediate medical attention/advice.

Skin contact Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash

contaminated clothing and shoes before reuse. For severe burns, immediate medical attention is required.

Inhalation Remove to fresh air. Administer oxygen if breathing is difficult. Call a physician immediately.

Ingestion Do NOT induce vomiting. Drink plenty of water. Never give anything by mouth to an unconscious person.

Call a physician immediately.

Most important symptoms and effects, both acute and delayed

See Section 11 for symptom information. **Symptoms** Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Dry chemical. Water spray (fog). Carbon dioxide (CO2). Foam.

Unsuitable extinguishing media No information available.

Specific hazards arising from the chemical

No information available.

Hazardous combustion products Phosphorus oxides.

Explosion data

Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Cool containers with flooding quantities of water until well after fire is out. Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes.

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 Prevent entry into waterways, sewers, basements or confined areas. See Section 12 for

additional ecological information.

Methods and material for containment and cleaning up

Prevent further leakage or spillage if safe to do so. Contain and collect spillage with **Methods for containment**

> non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13). Collect spillage. Soak up with inert absorbent material. Sweep up and shovel into suitable

Methods for cleaning up

containers for disposal. Following product recovery, flush area with water.

7. HANDLING AND STORAGE

Precautions for safe handling

Use personal protection recommended in Section 8. Avoid contact with skin, eyes or clothing. Advice on safe handling

Use only in well-ventilated areas. Avoid breathing vapors or mists. Wash thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep from freezing. **Storage Conditions** Incompatible materials

Strong oxidizing agents. Reducing agent. Caustics. Metals. Fluorine. Sulfur trioxide.

Phosphorous pentoxide. Chlorine bleach.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

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

Appropriate engineering controls

Engineering Controls Showers, eyewash stations, ventilation system. Individual protection measures, such as personal protective equipment

Eye/face protection Splash proof chemical goggles and face shield.

Skin and body protection Wear protective Neoprene™ gloves or rubber gloves. Wear suitable protective clothing.

Rubber boots recommended.

Respiratory protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved

respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be

provided in accordance with current local regulations.

General Hygiene Considerations Wash face, hands and any exposed skin thoroughly after handling. Wash contaminated

clothing and shoes before reuse. Do not eat, drink or smoke when using this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Liquid

AppearanceAqueous solutionOdorNone

ColorClear, ColorlessOdor thresholdNo information available

 Property
 Values
 Remarks
 • Method

 pH
 1
 ±1 @ 21°C

pH 1
Melting point/freezing point -17 °C / 1 °F

Boiling point / boiling range >= 135 °C / >= 275 °F

Flactor as int

Flash point Not flammable

Evaporation rateFlammability (solid, gas)
No information available
No information available

Flammability Limit in Air

Upper flammability limit:No information availableLower flammability limit:No information available

Vapor pressure 0.0285

Vapor density 2.1 - 5.65 mmHg @ 20°C

Specific Gravity

Mater solubility

Solubility in other solvents

1.59 g/cc

Miscible in water

No information available

Partition coefficient
Autoignition temperature
Decomposition temperature
Kinematic viscosity
Dynamic viscosity
Explosive properties
No information available

VOC Content (%) 0.00%

10. STABILITY AND REACTIVITY

Reactivity

No data available

Chemical stability

Stable under recommended storage conditions. Exothermic reaction will occur upon dilution with water. Add product to water, never add water to this product.

Possibility of Hazardous Reactions

None under normal processing.

Conditions to avoid

None known.

Incompatible materials

Strong oxidizing agents. Reducing agent. Caustics. Metals. Fluorine. Sulfur trioxide. Phosphorous pentoxide. Chlorine bleach.

Hazardous Decomposition Products

Phosphorus oxides.

11. TOXICOLOGICAL INFORMATION

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Information on likely routes of exposure

Product Information

Inhalation Mist inhalation might cause lung irritation, shortness of breath, fluid in lungs. Inhalation of

vapors in high concentration may cause irritation of respiratory system. Vapors may be

irritating to eyes, nose, throat, and lungs.

Risk of serious damage to eyes. Corrosive to the eyes and may cause severe damage Eye contact

including blindness.

Skin Contact Corrosive. Contact causes severe skin irritation and possible burns.

Ingestion Harmful if swallowed. Ingestion can cause nausea, vomiting, diarrhea, corrosion, burns to

mouth and esophagus, abdominal pain, shortness of breath, seizures, and death.

Oral LD50 Dermal LD50 **Chemical Name** Inhalation LC50 = 2740 mg/kg (Rabbit) Phosphoric acid = 1530 mg/kg (Rat) > 850 mg/m³ (Rat) 1 h 7664-38-2

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 information available. Germ cell mutagenicity No information available.

Carcinogenicity This product does not contain any carcinogens or potential carcinogens as listed by OSHA,

IARC or NTP.

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 0% 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 2,040.00 mg/kg **Dermal LD50** 3,653.00 mg/kg Mist 0.28 mg/l

12. ECOLOGICAL INFORMATION

Ecotoxicity

Toxic to aquatic life with long lasting effects

0% of the mixture consists of components(s) of unknown hazards to the aquatic environment

| Chemical Name | Fish | Crustacea |
|------------------------------|--|-----------------------------------|
| Phosphoric acid 7664-38-2 | 3 - 3.5: 96 h Gambusia affinis mg/L LC50 | 4.6: 12 h Daphnia magna mg/L EC50 |

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Mobility

Soluble in water.

Other adverse effects No information available

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.

US EPA Waste Number D002

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

14. TRANSPORT INFORMATION

DOT

UN/ID No. 1805

Proper shipping name Phosphoric acid

Hazard Class R **Packing Group** Ш **Emergency Response Guide Number** 154

15. REGULATORY INFORMATION

International Inventories

TSCA Complies

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DSL/NDSL Complies

DSL/NDSL Complies EINECS/ELINCS Complies

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 hazardYesChronic Health HazardNoFire hazardNoSudden release of pressure hazardNoReactive HazardNo

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)

| and to of it indi | | | | |
|-------------------|------------------|------------------------|---------------------------|-----------------|
| Chemical Name | CWA - Reportable | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous |
| | Quantities | | | Substances |
| Phosphoric acid | 5000 lb | - | - | X |
| 7664-38-2 | | | | |

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 | 5000 lb | - | RQ 5000 lb final RQ |
| 7664-38-2 | | | 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 | X | X | X |
| 7664-38-2 | | | |

U.S. EPA Label Information

EPA Pesticide Registration Number Not Applicable

| 16. OTHER INFORMATION | | | | | | |
|-----------------------|----------------|---|--------------|---|--------------------|--|
| NFPA | Health hazards | 2 | Flammability | 0 | Instability 0 | Physical and Chemical Properties Corrosive, Acid |
| <u>HMIS</u> | Health hazards | 2 | Flammability | 0 | Physical hazards 0 | Personal protection C (safety glasses, gloves, synthetic apron) |

Prepared By Technical Department

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Version 1

Revision Note

Company name update.

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