

SAFETY DATA SHEET

Revision Date 27-Feb-2023 Version 1

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

Product identifier

Product Name CC-400

Other means of identification

Product Code 20604

Recommended use of the chemical and restrictions on use

Recommended Use Scale and buildup remover

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

Details of the supplier of the safety data sheet

Initial supplier identifier

Safe Foods Chemical Innovations

1501 E. 8th Street

North Little Rock, AR 72114 USA Emergency telephone number

Initial supplier phone number 1-501-758-8500

Emergency Telephone Chemtrec 1-800-424-9300

2. HAZARDS IDENTIFICATION

Classification

Acute toxicity - Inhalation (Dusts/Mists)	Category 3
Skin corrosion/irritation	Category 1 Sub-category A
Serious eye damage/eye irritation	Category 1

Label elements

DANGER

Hazard statements

Causes severe skin burns and eye damage

Toxic if inhaled



Precautionary Statements - Prevention

Use only outdoors or in a well-ventilated area

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

Wash face, hands and any exposed skin thoroughly after handling

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

Precautionary Statements - Response

Immediately call a POISON CENTER or doctor

Specific treatment (see Section 4 on SDS)

Eyes

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

Skin

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. Wash contaminated clothing before reuse

Inhalation

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

Other Information

May be harmful if swallowed Toxic to aquatic life with long lasting effects

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Unknown acute toxicity

See Section 11 for additional Toxicological Information

3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

Ī	Chemical Name	CAS No.	Weight-%
	Water	7732-18-5	50-70
	Phosphoric acid	7664-38-2	30-40
Ī	Nitric acid	7697-37-2	1-10

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

4. FIRST AID MEASURES

First aid measures

Inhalation Remove to fresh air. Administer oxygen if breathing is difficult. Call a physician immediately. Eve contact Immediately flush with plenty of water. After initial flushing, remove any contact lenses and

continue flushing for at least 15 minutes. Call a physician immediately.

Skin contact Immediately flush skin with plenty of water for at least 15 minutes while removing

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

required. Wash contaminated clothing before reuse.

Do NOT induce vomiting. Rinse mouth immediately and drink plenty of water. Never give Ingestion

anything by mouth to an unconscious person. Call a physician immediately.

Most important symptoms and effects, both acute and delayed

See Section 11 for additional Toxicological Information. **Symptoms**

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media Unsuitable extinguishing media Water spray, carbon dioxide (CO2), dry chemical, foam.

No information available.

Specific hazards arising from the chemical

NFPA Class 1 oxidizer. Exothermic reaction will occur upon dilution with water.

Hazardous combustion products

fire-fighters

Carbon monoxide. Carbon dioxide (CO2). Phosphorus oxides. Nitrogen oxides (NOx).

Explosion data

Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge

Special protective equipment for

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. 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 For emergency responders Use personal protective equipment as required. Ensure adequate ventilation.

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

Methods for containment Prevent further leakage or spillage if safe to do so. Absorb spill with inert material (e.g. dry

sand or earth), then place in a chemical waste container.

Methods for cleaning up Soak up with inert absorbent material. Collect spillage. Sweep up and shovel into suitable

containers for disposal. After cleaning, flush away traces with water.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling When diluting, always add the product to water. Never add water to the product. Use

personal protection equipment. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. 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

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Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Ke

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep from freezing. NFPA Class 1 oxidizers must be separated by al least 8 feet from incompatible materials and combustible commodities (NFPA 400 Table 15.3.2.2.2.2(A)(b) 2016 edition). Oxidizers need to be separated by at least 25 feet from flammable and combustible liquid containers. Separation shall be maintained by dikes, drains, or floor slopes to prevent flammable liquid leakage from encroaching on the separation (NFPA 400 15.2.12.13.1). At least one side of

each pile of oxidizers shall be on an aisle (NFPA 400, 15.2.11.3 2016 edition).

Incompatible materials Chlorinated compounds. Alkali. Cyanides. Certain soft metals.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Limits

Chemical Name	Alberta	British Columbia	Ontario TWA	Quebec
Phosphoric acid	TWA: 1 mg/m ³	TWA: 1 mg/m ³	TWA: 1 mg/m ³	TWA: 1 mg/m ³
7664-38-2	STEL: 3 mg/m ³	STEL: 3 mg/m ³	STEL: 3 mg/m ³	STEL: 3 mg/m ³
Nitric acid	TWA: 2 ppm, 5.2 mg/m ³	TWA: 2 ppm	TWA: 2 ppm	TWA: 2 ppm, 5.2 mg/m ³
7697-37-2	STEL: 4 ppm, 10 mg/m ³	STEL: 4 ppm	STEL: 4 ppm	STEL: 4 ppm, 10 mg/m ³

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average)

STEL STEL (Short Term Exposure Limit)
Ceiling (CEV) Maximum limit value

* Skin designation
Appropriate engineering controls

Engineering controls Showers, eyewash stations, and ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection Tight sealing safety goggles. Face protection shield.

Skin and body protection If there is a risk of contact:. Chemical resistant gloves, suit and boots.

Respiratory protection When workers are facing concentrations above the exposure limit they must use

appropriate certified respirators.

General hygiene considerations Do not eat, drink or smoke when using this product. Wash face, hands and any exposed

skin thoroughly after handling. Take off contaminated clothing and wash it before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Liquid

Appearance Aqueous solution

ColorPinkOdorSour

Odor threshold No information available

Property Values Remarks • Method

pH 1 ±1 @ 21°C

Melting point / freezing point < -7 °C / < 20 °F Boiling point / boiling range No information available

Flash point Not flammable

Evaporation rate No information available Flammability (solid, gas) No information available

Flammability Limit in Air

Upper flammability limit:

Lower flammability limit:

Vapor pressure

Vapor density

Relative density

No data available

No data available

No data available

No data available

1.24 g/cc

Water solubility
Solubility in other solvents
Partition coefficient
Autoignition temperature
Decomposition temperature
No data available
No information available
No information available
No information available
No information available
No data available
No data available
No data available
No information available
No data available

Explosive propertiesNo information available. **Oxidizing properties**No information available.

VOC Content (%) 0.00%

10. STABILITY AND REACTIVITY

ReactivityChemical stability
No information available.
Stable under normal conditions.

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Possibility of Hazardous Reactions None under normal processing.

Conditions to avoid Exothermic reaction will occur upon dilution with water. When diluting, always add the

product to water. Never add water to the product.

Incompatible materials Chlorinated compounds. Alkali. Cyanides. Certain soft metals.

Hazardous Decomposition Products Carbon monoxide. Carbon dioxide (CO2). Phosphorus oxides. Nitrogen oxides (NOx).

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

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

may be irritating to eyes, nose, throat, and lungs.

Eye contactCorrosive to the eyes and may cause severe damage including blindness. **Skin contact**Corrosive. Contact causes severe skin irritation and possible burns.

Ingestion Corrosive. Ingestion causes burns of the upper digestive and respiratory tracts.

Information on toxicological effects

Symptoms No information available.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Phosphoric acid 7664-38-2	= 1530 mg/kg (Rat)	= 2740 mg/kg (Rabbit)	> 850 mg/m³ (Rat)1 h
Nitric acid 7697-37-2	-	-	= 2500 ppm (Rat) 1 h

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

Skin corrosion/irritation
Serious eye damage/eye irritation
Respiratory or skin sensitization
Germ cell mutagenicity
No information available.
No information available.
No information available.

Carcinogenicity

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

Chemical Name	ACGIH	IARC	NTP	OSHA
Nitric acid	-	Group 2A	-	X
7697-37-2		Group 1		

Legend

IARC (International Agency for Research on Cancer)

Group 2A - Probably Carcinogenic to Humans (Nitrate or nitrite (ingested) has been shown to be carcinogenic only under conditions that result in endogenous nitrosation) Group 1 - Carcinogenic to Humans (May cause cancer upon inhalation of strong inorganic acid mists)

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

Reproductive toxicity
STOT - single exposure
STOT - repeated exposure
Aspiration hazard
No information available.
No information available.
No information available.

Numerical measures of toxicity

Acute toxicity

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

 ATEmix (oral)
 4,636.40

 ATEmix (dermal)
 8,303.00

 ATEmix (inhalation-dust/mist)
 0.6445

 ATEmix (inhalation-vapor)
 42.9520

Unknown acute toxicity 38.025 % of the mixture consists of ingredient(s) of unknown toxicity

5.025 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

5.025 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

 $38.025\ \%$ of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

33 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

5.025 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

12. ECOLOGICAL INFORMATION

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

Chemical Name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			microorganisms	
Phosphoric acid 7664-38-2	-	3 - 3.5: 96 h Gambusia affinis mg/L LC50	-	4.6: 12 h Daphnia magna mg/L EC50
Nitric acid 7697-37-2	-	72: 96 h Gambusia affinis mg/L LC50	-	-

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Persistence and degradability
Bioaccumulation
No information available.
No information available.

Chemical Name Partition coefficient

Nitric acid - 7697-37-2 -2.3

MobilitySoluble in water.Other adverse effectsNo information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste from residues/unused Dispose of in accordance with local regulations. Dispose of waste in accordance with

products environmental legislation.

Contaminated packaging Empty containers must be triple rinsed prior to disposal. Dispose of in accordance with local

regulations.

14. TRANSPORT INFORMATION

TDG

UN/ID No. 3264

Proper shipping nameCorrosive liquid, acidic, inorganic, n.o.s. (contains phosphoric and nitric acids)

Hazard Class 8
Packing Group ||

15. REGULATORY INFORMATION

Regulatory information International Regulations

Ozone-depleting substances (ODS)Not applicablePersistent Organic PollutantsNot applicableThe Rotterdam ConventionNot applicable

International Inventories

TSCA 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

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

Prepared By Technical Department.

 Issue Date
 30-Nov-2016

 Revision Date
 27-Feb-2023

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

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