

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-416

Other means of identification

Product Code 20426

Recommended use of the chemical and restrictions on use

Recommended Use Acid CIP cleaner

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 2	
Acute toxicity - Inhalation (Vapors)	Category 3	
Serious eye damage/eye irritation	Category 1	
Skin corrosion/irritation	Category 1 Sub-category A	
Oxidizing liquids	Category 3	

Label elements

DANGER

Hazard statements

Fatal if inhaled

Causes severe skin burns and eye damage

May intensify fire; oxidizer



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

Keep away from clothing and other combustible materials

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

Precautionary Statements - Response

Specific treatment is urgent (see section 4 on the 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 [or 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

IN CASE OF FIRE: Use water spray to extinguish

Precautionary Statements - Storage

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

EN / HGHS Page 1/5

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Other Information

Harmful to aquatic life with long lasting effects

Unknown acute toxicity See Section 11 for additional Toxicological Information

3. COMPOSITION/INFORMATION ON INGREDIENTS			
Chemical Name	CAS No.	Weight-%	
Water	7732-18-5	65-85	
Nitric acid	7697-37-2	15-35	

^{*}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. Immediately flush with plenty of water. After initial flushing, remove any contact lenses and Eye contact

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

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

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

Symptoms See Section 11 for additional Toxicological Information.

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.

Specific hazards arising from the

No information available.

chemical

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

Hazardous combustion products

Explosion data

Nitrogen oxides (NOx).

Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge

Special protective equipment for fire-fighters

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 Use personal protective equipment as required. Ensure adequate ventilation.

For emergency responders Environmental precautions Isolate area. Keep unnecessary personnel away.

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.

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

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 recommended in Section 8. 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

EN / HGHS Page 2 / 5

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

vented. Keep/store only in original container. Keep from freezing. NFPA Class 1 oxidizers must be separated by at 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). Chlorinated compounds. Alkali. Cyanides. Certain soft metals.

Incompatible materials

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Limits

Chemical Name	Alberta	British Columbia	Ontario TWA	Quebec
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

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION Legend

TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

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.

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

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 Color Clear, Colorless

Odor Sour

Odor threshold No information available

Property Values Remarks • Method

pН ±0.5 @ 21°C

Melting point / freezing point <-17 °C / 2 °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: No data available Lower flammability limit: No data available Vapor pressure No data available Vapor density No data available

Relative density 1.2 g/cc

Water solubility Completely soluble Solubility in other solvents No data available Partition coefficient No data available **Autoignition temperature** No information available **Decomposition temperature** No data available Kinematic viscosity No information available No data available Dynamic viscosity **Explosive properties** No information available. Oxidizing properties No information available.

VOC Content (%) 0.00%

10. STABILITY AND REACTIVITY

Reactivity No information available. Chemical stability Stable under normal conditions. Possibility of Hazardous Reactions None under normal processing.

EN / HGHS Page 3 / 5

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 Nitrogen oxides (NOx).

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Inhalation Inhalation of vapors in high concentrations may be irritating to eyes, nose, throat and

respiratory system.

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.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Nitric acid	-	-	= 130 mg/m ³ (Rat) 4 h
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 (inhalation-dust/mist) 0.40 ATEmix (inhalation-vapor) 9.91

Unknown acute toxicity 32.5 % of the mixture consists of ingredient(s) of unknown toxicity

32.5 % of the mixture consists of ingredient(s) of unknown acute oral toxicity 32.5 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

32.5 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas) 0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

0 % 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	Crustacea
Nitric acid	-	72: 96 h Gambusia affinis mg/L	-
7697-37-2		LC50	

Persistence and degradability

No information available.

Bioaccumulation

Dioaddanialation		
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

EN / HGHS Page 4 / 5

Waste from residues/unused

products

Dispose of in accordance with local regulations. Dispose of waste in accordance with

environmental legislation.

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

regulations.

14. TRANSPORT INFORMATION

UN/ID No. 3264

Proper shipping name Corrosive liquid, acidic, inorganic, n.o.s. (contains nitric acid)

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
 18-Oct-2019

 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

EN / HGHS Page 5 / 5