SECTION 1 Identification

1.1. Product identifier

Product name : CC-117
Product code : 20646

1.2. Recommended use of the chemical and restrictions on use

Use of the substance/mixture : Laundry break
Restrictions on use : Follow the directions for use on the label when applying this product

1.3. Supplier's details

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

1.4. Emergency phone number

Emergency number : Chemtrec 1-800-424-9300

SECTION 2 Hazard identification

2.1. Classification of the substance or mixture

Classification (GHS CA)

Corrosive to metals, Category 1	May be corrosive to metals.
Skin corrosion/irritation, Category 1	Causes severe skin burns and eye damage.
Serious eye damage/eye irritation, Category 1	Causes serious eye damage.

2.2. GHS label elements, including precautionary statements

GHS CA labeling

Hazard pictograms (GHS CA) :



Signal word (GHS CA) : Danger
Hazard statements (GHS CA) : May be corrosive to metals
Causes severe skin burns and eye damage
Precautionary statements (GHS CA) : Keep only in original packaging.
Do not breathe dust, fume, gas, mist, vapors, spray.
Wash hands, forearms and face thoroughly after handling.
Wear protective gloves, protective clothing, eye protection, face protection, and hearing protection.
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
IF ON SKIN (or hair): Take off 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.
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 a doctor.
Specific treatment (see Section 4 on SDS).
Absorb spillage to prevent material-damage.
Store locked up.
Dispose of contents and/or container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulations.

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS CA)

10.06% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral)
29.66% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)
17% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist))

SECTION 3 Composition/information on ingredients

Name	Chemical name / Synonyms	Product identifier	% w/w
Potassium hydroxide	Caustic potash / potash lye / K(OH)	CAS-No.: 1310-58-3	10 – 30
Tetrapotassium pyrophosphate	Potassium pyrophosphate / tetrapotassium diphosphate / TKPP	CAS-No.: 7320-34-5	5 – 10
Potassium silicate	Silicic acid, potassium salt	CAS-No.: 1312-76-1	3 – 7
Sodium hydroxide	Caustic soda / soda lye / sodium hydrate / Na(OH)	CAS-No.: 1310-73-2	1 – 5

*Chemical name, CAS number and/or exact concentration have been withheld as CBI

SECTION 4 First-aid measures

4.1. Description of necessary first-aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.
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 : Rinse mouth. Do not induce vomiting. Call a physician immediately.
First-aid measures general : Call a physician immediately.

Personal protection for first-aid responders. : First-aiders should consider self-protection and use the recommended personal protective equipment (see section 8).

4.2. Most important symptoms/effects, acute and delayed

Symptoms/effects after inhalation : None under normal conditions.
Symptoms/effects after skin contact : Burns.
Symptoms/effects after eye contact : Serious damage to eyes.
Symptoms/effects after ingestion : Burns.

4.3. Indication of immediate medical attention and special treatment needed, if necessary

Other medical advice or treatment : Treat symptomatically.

SECTION 5 Fire-fighting measures

5.1. Suitable extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.
Unsuitable extinguishing media : Do not use a heavy water stream.

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 : Toxic fumes may be released.

5.3. Special protective actions 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.
Environmental precautions : Avoid release to the environment.

6.2. Methods and materials for containment and cleaning up

For containment : Absorb spilled material with sand or earth. 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.
For further information refer to section 13.

SECTION 7 Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapors/spray. Wear personal protective equipment.

Hygiene measures : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

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

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Keep in a cool, well-ventilated place away from heat.

Storage conditions : Store in corrosive resistant container with a resistant inner liner. Keep only in original container. Store locked up.

Incompatible materials for storage : Metals.

Packaging materials : Always store product in container of same material as original container.

SECTION 8 Exposure controls/personal protection

8.1. Control parameters

Potassium hydroxide (1310-58-3)	
Canada (Alberta) - Occupational Exposure Limits	
OEL C	2 mg/m³
Regulatory reference	Alberta Regulation 191/2021
Canada (Quebec) - Occupational Exposure Limits	
Plafond (OEL C)	2 mg/m³ RP
Regulatory reference	S-2.1, r. 13 - Regulation respecting occupational health and safety # S-2.1, r. 13 - Règlement sur la santé et la sécurité du travail
Canada (British Columbia) - Occupational Exposure Limits	
OEL C	2 mg/m³
Regulatory reference	OHS Guidelines Part 5: Chemical Agents and Biological Agents (WorkSafe BC)
Canada (Manitoba) - Occupational Exposure Limits	
OEL C	2 mg/m³
Regulatory reference	ACGIH 2025
Canada (Newfoundland and Labrador) - Occupational Exposure Limits	
OEL C	2 mg/m³
Regulatory reference	ACGIH 2025

Potassium hydroxide (1310-58-3)	
Canada (Nova Scotia) - Occupational Exposure Limits	
OEL C	2 mg/m³
Regulatory reference	ACGIH 2025
Canada (Nunavut) - Occupational Exposure Limits	
OEL C	2 mg/m³
Regulatory reference	Occupational Health and Safety Regulations, Nu Reg 003-2016 (Amendment R-044-2021) # Règlement sur la santé et la sécurité au travail, Règ Nu 003-2016 (Modification R-044-2021)
Canada (Northwest Territories) - Occupational Exposure Limits	
OEL C	2 mg/m³
Regulatory reference	Occupation Health and Safety Regulations R-039-2015 (R-124-2018) # Règlement sur la santé et la sécurité au travail R-039-2015 (R-124-2018)
Canada (Prince Edward Island) - Occupational Exposure Limits	
OEL C	2 mg/m³
Regulatory reference	ACGIH 2025
Canada (Saskatchewan) - Occupational Exposure Limits	
OEL C	2 mg/m³
Regulatory reference	The Occupational Health and Safety Regulations, 2020. Chapter S-15.1 Reg 10

Sodium hydroxide (1310-73-2)	
Canada (Alberta) - Occupational Exposure Limits	
OEL C	2 mg/m³
Regulatory reference	Alberta Regulation 191/2021
Canada (Quebec) - Occupational Exposure Limits	
Plafond (OEL C)	2 mg/m³ RP
Regulatory reference	S-2.1, r. 13 - Regulation respecting occupational health and safety # S-2.1, r. 13 - Règlement sur la santé et la sécurité du travail
Canada (British Columbia) - Occupational Exposure Limits	
OEL C	2 mg/m³
Regulatory reference	OHS Guidelines Part 5: Chemical Agents and Biological Agents (WorkSafe BC)
Canada (Manitoba) - Occupational Exposure Limits	
OEL C	2 mg/m³

Sodium hydroxide (1310-73-2)	
Regulatory reference	ACGIH 2025
Canada (Newfoundland and Labrador) - Occupational Exposure Limits	
OEL C	2 mg/m³
Regulatory reference	ACGIH 2025
Canada (Nova Scotia) - Occupational Exposure Limits	
OEL C	2 mg/m³
Regulatory reference	ACGIH 2025
Canada (Nunavut) - Occupational Exposure Limits	
OEL C	2 mg/m³
Regulatory reference	Occupational Health and Safety Regulations, Nu Reg 003-2016 (Amendment R-044-2021) # Règlement sur la santé et la sécurité au travail, Règ Nu 003-2016 (Modification R-044-2021)
Canada (Northwest Territories) - Occupational Exposure Limits	
OEL C	2 mg/m³
Regulatory reference	Occupation Health and Safety Regulations R-039-2015 (R-124-2018) # Règlement sur la santé et la sécurité au travail R-039-2015 (R-124-2018)
Canada (Prince Edward Island) - Occupational Exposure Limits	
OEL C	2 mg/m³
Regulatory reference	ACGIH 2025
Canada (Saskatchewan) - Occupational Exposure Limits	
OEL C	2 mg/m³
Regulatory reference	The Occupational Health and Safety Regulations, 2020. Chapter S-15.1 Reg 10

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, such as personal protective equipment (PPE)

Personal protective equipment:
Wear recommended personal protective equipment.

Hand protection:	Protective gloves
Eye protection:	Safety glasses
Skin and body protection:	Wear suitable protective clothing
Respiratory protection:	In case of insufficient ventilation, wear suitable respiratory equipment

SECTION 9 Physical and chemical properties

9.1. Basic physical and chemical properties

Physical state	:	Liquid
Appearance	:	Aqueous solution.
Color	:	Clear to slightly hazy liquid
Odor	:	None
Odor threshold	:	No data available
pH	:	13
Relative evaporation rate (butyl acetate=1)	:	No data available
Relative evaporation rate (ether=1)	:	No data available
Melting point	:	Not applicable
Freezing point	:	< -25 °C / -14 °F
Boiling point	:	124 °C / 255 °F
Flash point	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Flammability (solid, gas)	:	Not applicable
Vapor pressure	:	No data available
Relative vapor density at 20°C	:	No data available
Relative density	:	1.325 – 1.345
Solubility	:	Soluble in water.
Partition coefficient n-octanol/water (Log Pow)	:	No data available
Viscosity, kinematic	:	No data available
Explosion limits	:	No data available
Particle characteristics	:	No data available

9.2. Data relevant with regard to physical hazard classes (supplemental)

VOC content	:	0 %

SECTION 10 Stability and reactivity

Reactivity	:	The product is non-reactive under normal conditions of use, storage and transport.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reactions	:	No dangerous reactions known under normal conditions of use.
Conditions to avoid	:	None under recommended storage and handling conditions (see section 7).
Incompatible materials	:	Metals.
Hazardous decomposition products	:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Hardening time:	:	No additional information available

SECTION 11 Toxicological information

11.1. Likely routes of exposure

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

Name	LD50 Oral	LD50 Dermal	LC50 Inhalation	ATE (CA)
Potassium silicate (1312-76-1)	> 5000 mg/kg body weight, rat	> 5000 mg/kg body weight, rat	> 2.06 mg/l air, rat	Dust, mist: 1.5 mg/l/4h
Potassium hydroxide (1310-58-3)	333 – 388 mg/kg body weight, rat	-	-	Oral: 360.5 mg/kg body weight
Sodium hydroxide (1310-73-2)	-	1350 mg/kg, rabbit	-	Dermal: 1350 mg/kg body weight
Tetrapotassium pyrophosphate (7320-34-5)	2440 mg/kg body weight, rat	> 2000 mg/kg body weight, rabbit	> 1.1 mg/l, rat, dust	Oral: 2440 mg/kg body weight Dust, mist: 1.5 mg/l/4h

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
Reproductive toxicity : Not classified

Name	LOAEL	NOAEL
Potassium silicate (1312-76-1)	-	> 159 mg/kg bodyweight, rat, female, F0/P

STOT-single exposure : Not classified
STOT-repeated exposure : Not classified

Name	LOAEL	LOAEC	NOAEL	NOAEC
Tetrapotassium pyrophosphate (7320-34-5)	-	-	Oral: 500 mg/kg body weight, rat, 90 days	-

Aspiration hazard : Not classified
Symptoms/effects after inhalation : None under normal conditions.
Symptoms/effects after skin contact : Burns.
Symptoms/effects after eye contact : Serious damage to eyes.
Symptoms/effects after ingestion : Burns.

SECTION 12 Ecological information

12.1. Toxicity

Ecology - general : Before neutralisation, the product may represent a danger to aquatic organisms.

Hazardous to the aquatic environment, short–term (acute) : Not classified.

Hazardous to the aquatic environment, long–term (chronic) : Not classified.

Name	Fish	Crustacea	Other Aquatic Organisms
Potassium silicate (1312-76-1)	LC50 [1]: 301 – 478 mg/l	-	EC50 72h Algae [1,2]: 207 mg/l
Potassium hydroxide (1310-58-3)	LC50 [1]: 660 mg/l	EC50 [1]: 660 mg/l	-
Sodium hydroxide (1310-73-2)	LC50 [1]: 189 mg/l	EC50 [1]: 40 mg/l	-
Tetrapotassium pyrophosphate (7320-34-5)	LC50 [1]: > 100 mg/l	EC50 [1]: > 100 mg/l	ErC50 Algae: > 100 mg/l EC50 72h Algae [1]: > 100 mg/l

12.2. Persistence and degradability

Name	Persistence and degradability
CC-117	Not rapidly degradable
Potassium silicate (1312-76-1)	Not rapidly degradable
Potassium hydroxide (1310-58-3)	Biodegradability: not applicable.
Sodium hydroxide (1310-73-2)	Biodegradability: not applicable.
Tetrapotassium pyrophosphate (7320-34-5)	Biodegradability: not applicable.

12.3. Bioaccumulative potential

Name	Bioaccumulative potential
Potassium hydroxide (1310-58-3)	Not bioaccumulative.
Sodium hydroxide (1310-73-2)	Not bioaccumulative.
Tetrapotassium pyrophosphate (7320-34-5)	Not bioaccumulative.

12.4. Mobility in soil

Name	Soil ecology
Potassium hydroxide (1310-58-3)	Low potential for adsorption in soil.
Sodium hydroxide (1310-73-2)	No (test)data on mobility of the substance available.

Name	Soil ecology
Tetrapotassium pyrophosphate (7320-34-5)	Low potential for adsorption in soil.

12.5. Other adverse effects

Ozone : Not classified

Fluorinated greenhouse gases : No

SECTION 13 Disposal considerations

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.

Ecological waste information : The waste of the product should be considered as hazardous as the product itself, with the likelihood of impacting the environment in the same way. Consider the handling and disposal of the waste as defined by the product itself.

SECTION 14 Transport information

In accordance with TDG / DOT / IMDG / IATA

TDG	DOT	IMDG	IATA
14.1. UN Number			
UN1760	UN1760	UN1760	UN1760
14.2. UN Proper Shipping Name			
CORROSIVE LIQUID, N.O.S. (contains Sodium hydroxide ; Potassium hydroxide)	Corrosive liquids, n.o.s. (contains Sodium hydroxide ; Potassium hydroxide)	CORROSIVE LIQUID, N.O.S. (contains Sodium hydroxide ; Potassium hydroxide)	Corrosive liquid, n.o.s. (contains Sodium hydroxide ; Potassium hydroxide)
Transport document description			
UN1760 CORROSIVE LIQUID, N.O.S. (contains sodium and potassium hydroxides), 8, II	UN1760 Corrosive liquids, n.o.s. (contains sodium and potassium hydroxides), 8, II	UN 1760 CORROSIVE LIQUID, N.O.S. (contains sodium and potassium hydroxides), 8, II	UN 1760 Corrosive liquid, n.o.s. (contains sodium and potassium hydroxides), 8, II
14.3. Transport hazard class(es)			
8	8	8	8

TDG	DOT	IMDG	IATA
			
14.4. Packing group, if applicable			
II	II	II	II
14.5. Environmental hazards			
Dangerous for the environment: No	Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No
No supplementary information available			

SECTION 15 Regulatory information

Name	Inventory
Potassium silicate (1312-76-1)	Listed on the Canadian DSL (Domestic Substances List) Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active Listed on INSQ (Mexican National Inventory of Chemical Substances)
Potassium hydroxide (1310-58-3)	Listed on the Canadian DSL (Domestic Substances List) Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active Listed on INSQ (Mexican National Inventory of Chemical Substances)
Sodium hydroxide (1310-73-2)	Listed on the Canadian DSL (Domestic Substances List) Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active Listed on INSQ (Mexican National Inventory of Chemical Substances)
Tetrapotassium pyrophosphate (7320-34-5)	Listed on the Canadian DSL (Domestic Substances List) Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

SECTION 16 Other Information

Issue date : 07-30-2026

Indication of changes:
New product.

Safety Data Sheet (SDS), Canada

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.