

SECTION 1 Identification

1.1. Product identifier

Product form : Mixture
Product name : Ultra Soft Metal Activator
Product code : See product label
EPA Registration # : Adjuvant for: Sterilex Ultra Disinfectant Cleaner Solution 1 / Sterilex Ultra CIP (EPA Reg # 63761-8)

1.2. Recommended use of the chemical and restrictions on use

Recommended use : Activator

1.3. Supplier's details

Manufacturer

Sterilex LLC
111 Lake Front Dr
Hunt Valley, MD 21030 - USA
T 443-541-8800

1.4. Emergency phone number

Emergency number : Velocity EHS (24 hours) 1-800-255-3924 (North America)
VelocityEHS (24 hours) 001-813-248-0585 (International)

SECTION 2 Hazard identification

2.1. Classification of the substance or mixture

GHS classification

Skin irritation, Category 2
Serious eye damage, Category 1

2.2. Label elements

GHS labelling

Hazard pictograms (GHS) :



Signal word (GHS) :

Danger

Hazard statements (GHS) :

H315 - Causes skin irritation

H318 - Causes serious eye damage

Precautionary statements (GHS) :

P264 - Wash hands, forearms and face thoroughly after handling.

P280 - Wear protective gloves, protective clothing, face protection, eye protection.

P302+P352 - If on skin: Wash with plenty of water.

P362+P364 - Take off contaminated clothing and wash it before reuse.

P332+P313 - If skin irritation occurs: Get medical advice or attention.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 - Immediately call a poison center or doctor.

2.3. Hazards not otherwise classified

No additional information available

Ultra Soft Metal Activator

Safety Data Sheet

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2024 and the Hazardous Products Regulations (HPR) WHMIS 2022

2.4. Unknown acute toxicity

Not applicable.

SECTION 3 Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Chemical name / Synonyms	Product identifier	Conc. (% w/w)
Carbonic acid, dipotassium salt	Potassium carbonate / Potash / Potassium carbonate (2:1) / Carbonic acid, potassium salt (1:2) / POTASSIUM CARBONATE / Dipotassium carbonate / Potassium carbonate, anhydrous / potassium carbonate	CAS-No.: 584-08-7	3 - 7
Disodium carbonate	Sodium carbonate / Carbonic acid, disodium salt / Soda ash / Sodium carbonate (2:1) / Sodium carbonate, anhydrous / Carbonic acid sodium salt (1:2) / SODIUM CARBONATE / Sodium carbonate anhydrous	CAS-No.: 497-19-8	3 - 7
Tetrasodium EDTA	Ethylenediaminetetraacetic acid, tetrasodium salt / Tetrasodium ethylenediaminetetraacetate / Glycine, N,N'-1,2-ethanediylbis[N-(carboxymethyl)-, sodium salt (1:4) / Glycine, N,N'-1,2-ethanediylbis[N-(carboxymethyl)-, tetrasodium salt / TETRASODIUM EDTA / EDTA tetrasodium salt / Tetrasodium salt of ethylenediaminetetraacetic acid / Acetic acid, (ethylenedinitrilo)tetra-, tetrasodium salt / EDTA, tetrasodium / Tetrasodium edetate / N,N'-1,2-Ethanediylbis(N-(carboxymethyl)glycine) tetrasodium salt / Tetrasodium 2,2',2'',2'''-(ethylenedinitrilo)tetraacetate / Tetrasodium ethylene diamine tetraacetate / edetate sodium / Edetate sodium	CAS-No.: 64-02-8	1 – 5
Sodium metasilicate	Silicic acid, sodium salt (1:2) / Sodium silicate / Disodium dioxido(oxo)silane / SODIUM METASILICATE / Silicic acid (H ₂ SiO ₃), sodium salt (1:2) / Disodium trioxosilicate / Disodium metasilicate (Na ₂ SiO ₃) / Silicic acid, disodium salt / Sodium metasilicate, anhydrous / Silicic acid (H ₂ SiO ₃), disodium salt / Silicate, disodium / Disodium metasilicate	CAS-No.: 6834-92-0	1 – 5

*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

SECTION 4 First-aid measures

4.1. Description of necessary first-aid measures

First-aid measures after inhalation	: If inhaled and if breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
First-aid measures after skin contact	: IF ON SKIN: Wash with plenty of soap and water. Take off immediately all contaminated clothing and wash it before reuse. Get medical attention if irritation develops and persists.
First-aid measures after eye contact	: 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/doctor.
First-aid measures after ingestion	: IF SWALLOWED: Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.

4.2. Most important symptoms/effects, acute and delayed

Symptoms/effects after inhalation	: May cause irritation to the respiratory tract. Not expected to present a significant inhalation hazard under anticipated conditions of normal use.
Symptoms/effects after skin contact	: Causes skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin.
Symptoms/effects after eye contact	: Causes serious eye damage. May cause burns. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.

Ultra Soft Metal Activator

Safety Data Sheet

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2024 and the Hazardous Products Regulations (HPR) WHMIS 2022

Symptoms/effects after ingestion : May be harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and diarrhea.

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

Other medical advice or treatment : Symptoms may be delayed. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire.
Unsuitable extinguishing media : Do not use water jet.

5.2. Specific hazards arising from the chemical

Fire hazard : Products of combustion may include, and are not limited to: oxides of carbon. Nitrogen oxides
Irritating vapours.

5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).

SECTION 6 Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

For non-emergency personnel

No additional information available

For emergency responders

Environmental precautions : Prevent entry to sewers and public waters.

6.2. Methods and materials for containment and cleaning up

For containment : Stop leak if safe to do so. Absorb and/or contain spill with inert material (sand, vermiculite or other appropriate material), then place in suitable container. Do not flush into surface water or sewer system. Wear recommended personal protective equipment.

Methods for cleaning up : Sweep or shovel spills into appropriate container for disposal.

For further information refer to section 8: "Exposure controls/personal protection"

SECTION 7 Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Do not get in eyes, on skin, or on clothing. Do not swallow. Handle and open container with care. When using do not eat, drink or smoke. Wear personal protective equipment.
Hygiene measures : Wash contaminated clothing before reuse. Wash hands, forearms and face thoroughly after handling.

7.2. Conditions for safe storage, including incompatibilities

Storage conditions : Keep out of the reach of children. Keep container tightly closed. Store in a dry, cool place. Containers should be kept upright to prevent leakage. Keep away from food, drink and animal feedingstuffs.

Specific end uses : Not available.

Ultra Soft Metal Activator

Safety Data Sheet

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2024 and the Hazardous Products Regulations (HPR) WHMIS 2022

SECTION 8 Exposure controls/personal protection

8.1. Control parameters

No additional information available.

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station. Provide readily accessible eye wash stations and safety showers.

Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures, such as personal protective equipment

Hand protection:	
Wear suitable gloves resistant to chemical penetration. Consult glove manufacturer's product information on material suitability and material thickness.	
Eye protection:	
Wear eye/face protection	
Skin and body protection:	
Wear suitable protective clothing	
Respiratory protection:	
None under normal conditions of use. In case of insufficient ventilation, wear suitable respiratory equipment. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. SDSs cannot provide detailed and complete respiratory protection guidelines. Selection of respiratory protection must be done by a qualified person who has assessed the work environment.	

Other information:

Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product.

SECTION 9 Physical and chemical properties

9.1. Basic physical and chemical properties

Physical state	: Liquid
Appearance	: Clear liquid.
Colour	: Clear
Odour	: Odourless
Odour threshold	: No data available
pH	: 11 – 14
Melting point	: No data available
Freezing point	: No data available
Boiling point	: > 100 °C (>212 °F)
Flash point	: Not applicable
Flammability (solid, gas)	: Not flammable.
Vapour pressure	: 23 hPa @ 20 °C / 68 °F
Relative vapour density at 20°C/ 68 °F	: No data available
Specific gravity	: 1.15 – 1.2
Solubility	: Water: completely miscible
Partition coefficient n-octanol/water	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Explosive limits	: No data available
Oxidising properties	: Not oxidizing.

Ultra Soft Metal Activator

Safety Data Sheet

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2024 and the Hazardous Products Regulations (HPR) WHMIS 2022

Particle characteristics : No data available
VOC content : 0%

Disodium carbonate	
Boiling point	(decomposes)
Particle characteristics	No data available
Tetrasodium EDTA	
Flash point	> 100 °C (closed cup)
Auto-ignition temperature	> 100 °C
Vapour pressure	0 hPa Temp.: 25 °C
Particle characteristics	No data available
Sodium metasilicate	
Boiling point	100 °C
Vapour pressure	0.0103 hPa Temp.: 1175 °C
Particle characteristics	No data available

SECTION 10 Stability and reactivity

10.1. Reactivity

No dangerous reactions known under normal conditions of use.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Heat. Incompatible materials.

10.5. Incompatible materials

Strong acids. Strong oxidizers

10.6. Hazardous decomposition products

May include, and are not limited to: oxides of carbon. Nitrogen oxides. Corrosive vapours. Toxic fumes may be released.

SECTION 11 Toxicological information

11.1. Information on toxicological effects

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

Ultra Soft Metal Activator	
LD50 dermal rat	> 2000 mg/kg (04-005)

Ultra Soft Metal Activator

Safety Data Sheet

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2024 and the Hazardous Products Regulations (HPR) WHMIS 2022

Ultra Soft Metal Activator	
LC50 inhalation rat	> 2.5 mg/l , 4hr (15-043)
Carbonic acid, dipotassium salt (584-08-7)	
LD50 oral rat	1870 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 inhalation rat	> 4.96 mg/l (Exposure time: 4.5 h)
ATE CA (oral)	1870 mg/kg bodyweight
Disodium carbonate (497-19-8)	
LD50 oral rat	4090 mg/kg
LD50 dermal rabbit	> 2000 mg/kg bodyweight Animal: rabbit, Guideline: other:EPA 16 CFR 1500.40
ATE CA (oral)	4090 mg/kg bodyweight
Tetrasodium EDTA (64-02-8)	
LD50 oral rat	1658 mg/kg (Source: NZ_CCID)
LD50 oral	1210 mg/kg
Sodium metasilicate (6834-92-0)	
LD50 oral rat	1153 mg/kg
LD50 dermal rat	> 5000 mg/kg bodyweight Animal: rat, Guideline: EPA OPPTS 870.1200 (Acute Dermal Toxicity)
LC50 inhalation rat	> 2.06 mg/l air Animal: rat, Guideline: EPA OPPTS 870.1300 (Acute inhalation toxicity)
ATE CA (oral)	1153 mg/kg bodyweight
Skin corrosion/irritation	: Slightly irritating to the skin 1.8 = Slight irritation (01-008) pH: 11 – 14
Serious eye damage/irritation	: Causes serious eye damage. pH: 11 – 14
Respiratory or skin sensitisation	: No sensitization (04-002)
Germ cell mutagenicity	: Not classified.
Carcinogenicity	: Not classified.
Reproductive toxicity	: Not classified.
Sodium metasilicate (6834-92-0)	
NOAEL (animal/female, F0/P)	> 159 mg/kg bodyweight Animal: rat, Animal sex: female
STOT-single exposure	: Not classified.
Carbonic acid, dipotassium salt (584-08-7)	
STOT-single exposure	May cause respiratory irritation.
Sodium metasilicate (6834-92-0)	
STOT-single exposure	May cause respiratory irritation.
STOT-repeated exposure	: Not classified.
Tetrasodium EDTA (64-02-8)	
LOAEL (oral, rat, 90 days)	60 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)

Ultra Soft Metal Activator

Safety Data Sheet

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2024 and the Hazardous Products Regulations (HPR) WHMIS 2022

Tetrasodium EDTA (64-02-8)	
LOAEC (inhalation, rat, dust/mist/fume, 90 days)	0.015 mg/l air Animal: rat, Animal sex: female, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study)
NOAEL (oral, rat, 90 days)	6 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)
Sodium metasilicate (6834-92-0)	
NOAEL (oral, rat, 90 days)	227 – 237 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)
Aspiration hazard	: Not classified.
Ultra Soft Metal Activator	
Viscosity, kinematic	No data available
Carbonic acid, dipotassium salt (584-08-7)	
Viscosity, kinematic	No data available
Disodium carbonate (497-19-8)	
Viscosity, kinematic	No data available
Tetrasodium EDTA (64-02-8)	
Viscosity, kinematic	No data available
Sodium metasilicate (6834-92-0)	
Viscosity, kinematic	No data available

SECTION 12 Ecological information

12.1. Ecotoxicity

Ecology - general : Not classified
Hazardous to the aquatic environment, short-term (acute) : Not classified.
Hazardous to the aquatic environment, long-term (chronic) : Not classified.

Ultra Soft Metal Activator	
LC50 - Fish	2311.8 mg/l 96 hr LC50 Species: Fathead minnow (Freshwater fish)
EC50 – Other aquatic organisms	3186.4 mg/l 48 hr LC50 Species: Ceriodaphnia dubia (Freshwater invertebrate)
Carbonic acid, dipotassium salt (584-08-7)	
LC50 - Fish [1]	68 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
EC50 - Crustacea [1]	630 mg/l (Exposure time: 48 h - Species: Ceriodaphnia dubia)
Disodium carbonate (497-19-8)	
LC50 - Fish [1]	300 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static] Source: EPA)
EC50 - Crustacea [1]	265 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 - Fish [2]	310 – 1220 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static] Source: EPA)
EC50 - Crustacea [2]	200 – 227 mg/l Test organisms (species): Ceriodaphnia sp.

Ultra Soft Metal Activator

Safety Data Sheet

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2024 and the Hazardous Products Regulations (HPR) WHMIS 2022

Tetrasodium EDTA (64-02-8)	
LC50 - Fish [1]	> 116 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
EC50 - Crustacea [1]	> 114 mg/l Test organisms (species): Daphnia magna
LC50 - Fish [2]	59.8 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static] Source: IUCLID)
EC50 72h - Algae [1]	> 60 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
ErC50 algae	1.01 mg/l
LOEC (chronic)	50 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic)	25 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic fish	≥ 25.7 mg/l Test organisms (species): Duration: '35 d'
Sodium metasilicate (6834-92-0)	
LC50 - Fish [1]	210 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [semi-static] Source: IUCLID)
EC50 - Crustacea [1]	1700 mg/l Test organisms (species): Daphnia magna
LC50 - Fish [2]	210 mg/l (Exposure time: 96 h - Species: Brachydanio rerio Source: IUCLID)
EC50 72h - Algae [1]	207 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)

12.2. Persistence and degradability

Ultra Soft Metal Activator	
Persistence and degradability	Not established.
Carbonic acid, dipotassium salt (584-08-7)	
Persistence and degradability	Rapidly degradable
Disodium carbonate (497-19-8)	
Persistence and degradability	Rapidly degradable
Tetrasodium EDTA (64-02-8)	
Persistence and degradability	Rapidly degradable
Sodium metasilicate (6834-92-0)	
Persistence and degradability	Rapidly degradable

12.3. Bioaccumulative potential

Ultra Soft Metal Activator	
Bioaccumulative potential	Not established.
Disodium carbonate (497-19-8)	
BCF - Fish [1]	(no bioaccumulation)

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Ozone : Not classified.

Ultra Soft Metal Activator

Safety Data Sheet

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2024 and the Hazardous Products Regulations (HPR) WHMIS 2022

Fluorinated greenhouse gases : No
Other information : No other effects known.

SECTION 13 Disposal considerations

Product/Packaging disposal recommendations : Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

SECTION 14 Transport information

In accordance with DOT / TDG / IMDG / IATA

14.1. UN Number

Not regulated for transport

14.2. UN Proper Shipping Name

Proper Shipping Name (DOT) : Not regulated
Proper Shipping Name (TDG) : Not regulated
Proper Shipping Name (IMDG) : Not regulated
Proper Shipping Name (IATA) : Not regulated

14.3. Transport hazard class(es)

DOT

Transport hazard class(es) (DOT) : Not regulated

TDG

Transport hazard class(es) (TDG) : Not regulated

IMDG

Transport hazard class(es) (IMDG) : Not regulated

IATA

Transport hazard class(es) (IATA) : Not regulated

14.4. Packing group

Packing group (DOT) : Not regulated
Packing group (TDG) : Not regulated
Packing group (IMDG) : Not regulated
Packing group (IATA) : Not regulated

14.5. Environmental hazards

Other information : No supplementary information available.

14.6. Transport in bulk

Not applicable

14.7. Special precautions for user

DOT

Not regulated

TDG

Not regulated

IMDG

Not regulated

Ultra Soft Metal Activator

Safety Data Sheet

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2024 and the Hazardous Products Regulations (HPR) WHMIS 2022

IATA
Not regulated

SECTION 15 Regulatory information

15.1. Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

All components of this product are listed, or excluded from listing, on the Canadian DSL (Domestic Substances List) and NDSL (Non-Domestic Substances List) inventories.

15.2. International regulations

No additional information available

15.3. State regulations

California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986) - This product contains no listed substances known to the State of California to cause cancer, birth defects or other reproductive harm, at levels which would require a warning under the statute.

SECTION 16 Other Information

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2024 and the Hazardous Products Regulations (HPR) WHMIS 2022

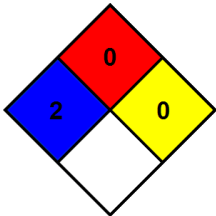
Revision date : 2025-11-04
Issue date : 2022-10-13
Other information : None.
Prepared by : Nexreg Compliance Inc.
www.Nexreg.com



NFPA health hazard : 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.

NFPA fire hazard : 0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.

NFPA reactivity : 0 - Material that in themselves are normally stable, even under fire conditions.



Hazard Rating

Health : 2 Moderate Hazard - Temporary or minor injury may occur

Flammability : 0 Minimal Hazard - Materials that will not burn

Physical : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

Indication of changes:
V2.1 VOC content
V3.1 SDS update.

SDS HazCom 2024 - WHMIS 2022 (Nexreg) 2025

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