Sani-Cide EX3 (10X)

Safety Data Sheet

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2024
Issue date: 8/15/2025 Revision date: 8/15/2025 Version: 1.0

SECTION 1 Identification

1.1. Product identifier

Product form	:	Mixture
Product name	:	Sani-Cide EX3 (10X)
Formula number	:	LB-SCIDEX3/C1
Part number	:	CC-SCIDEX3/5
EPA Registration number	:	42048-3

1.2. Other means of identification

No additional information available

1.3. Recommended use of the chemical and restrictions on use

Recommended use	:	Disinfectant

1.4. Supplier's details

Manufacturer
Celeste Industries Corporation
8007 Industrial Park Road
Easton, Maryland 21601 USA
T 1-410-822-5775
info@celestecorp.com - www.celestecorp.com

1.5. Emergency phone number

Emergency number	:	For Chemical Emergency, Spill, Leak, Fire, Exposure or Accident call CHEMTREC (24 hours) within USA and CANADA: 1-800-424-9300 Outside USA and Canada (collect call accepted): 1-703-527-3883

SECTION 2 Hazard Identification

2.1. Classification of the substance or mixture

GHS US classification

Corrosive to metals, Category 1	May be corrosive to metals.
Serious eye damage/eye irritation, Category 1	Causes serious eye damage.
Skin sensitization, Category 1	May cause an allergic skin reaction.

2.2. Label elements

GHS US labeling

Hazard pictograms (GHS US) :

Signal word (GHS US)	:	Danger
Hazard statements (GHS US)	:	May be corrosive to metals May cause an allergic skin reaction Causes serious eye damage
Precautionary statements (GHS US)	:	Keep only in original packaging. Avoid breathing dust, fume, gas, mist, vapors, spray. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves, protective clothing, eye protection, face protection, and hearing

protection.
If on skin: Wash with plenty of water.
Take off contaminated clothing and wash it before reuse.
If skin irritation or rash occurs: Get medical advice or attention.
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.
Absorb spillage to prevent material-damage.
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. Hazards associated with known or reasonably anticipated uses

No additional information available

2.4. Hazards not otherwise classified

No additional information available

2.5. Unknown acute toxicity

Non applicable

SECTION 3 Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%
Alcohols, C9-11, ethoxylated	CAS-No.: 68439-46-3	3 - 10
Sodium 1-octanesulfonate	CAS-No.: 5324-84-5	5 - 10
2-Propanol, 1-phenoxy-	CAS-No.: 770-35-4	1 – 5
Poly(oxy-1,2-ethanediyl), .alpha.-octyl-.omega.-hydroxy-	CAS-No.: 27252-75-1	1 - 5
L-Lactic acid	CAS-No.: 79-33-4	1 – 5
Benzenesulfonic acid, C10-16-alkyl derivatives	CAS-No.: 68584-22-5	1 - 5
2-Pyrrolidinone, 1-octyl-	CAS-No.: 2687-94-7	1 - 5
Citric acid	CAS-No.: 77-92-9	1 - 5
.beta.-Alanine, N-(2-carboxyethyl)-N-dodecyl-, monosodium salt	CAS-No.: 14960-06-6	0.5 – 1.5
Dibutyl thiourea	CAS-No.: 109-46-6	0.1 < 1
Sulfuric acid	CAS-No.: 7664-93-9	0.1 < 1

*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 breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.

First-aid measures after skin contact : IF ON SKIN: Wash with plenty of Water. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention.

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 or doctor/physician.

First-aid measures after ingestion : 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.

Symptoms/effects after skin contact : Causes mild skin irritation. Repeated exposure may cause skin dryness or cracking. May cause an allergic skin reaction.

Symptoms/effects after eye contact : Causes serious eye damage. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. May cause burns.

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 : Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

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. Oxides of sodium.

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 : 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. Provide ventilation. Absorb spillage to prevent material-damage.

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 : Avoid breathing dust/fume/gas/mist/vapors/spray. 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.

Hygiene measures : Take off contaminated clothing and wash it before reuse. Contaminated work clothing should not be allowed out of the workplace. Wash hands, forearms and face thoroughly after handling.

Additional hazards when processed : May be corrosive to metals.

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 and well-ventilated place. Keep only in original container.

Maximum storage period : 24 months from date of manufacture

SECTION 8 Exposure controls/personal protection

8.1. Control parameters

Sulfuric acid (7664-93-9)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH® TLV® TWA	0.2 mg/m³ (thoracic particulate matter)
ACGIH chemical category	Suspected Human Carcinogen contained in strong inorganic acid mists
USA - OSHA - Occupational Exposure Limits	
OSHA PEL TWA	1 mg/m³
USA - IDLH - Occupational Exposure Limits	
IDLH	15 mg/m³
USA - NIOSH - Occupational Exposure Limits	
NIOSH REL (TWA)	1 mg/m³

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:
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	:	Thin.
Color	:	Translucent
Odor	:	No data available
Odor threshold	:	No data available
pH	:	1.5 – 2
Melting point	:	No data available
Freezing point	:	32 °F (0 °C)(estimated value)
Boiling point	:	212 °F (100 °C)(estimated value)
Flash point	:	No data available
Flammability (solid, gas)	:	No data available
Vapor pressure	:	No data available
Relative vapor density at 20°C	:	No data available
Relative density	:	0.9 – 1.1 Specific gravity density
Solubility	:	No data available
Partition coefficient n-octanol/water	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity, kinematic	:	No data available
Explosion limits	:	No data available
Particle characteristics	:	No data available

Dibutyl thiourea	
Boiling point	(>171.05 - <208.33 °C)
Flash point	103.6 °C Atm. press.: 1013 hPa
Vapor pressure	0.00256 mm Hg Temp.: 25 °C
Particle characteristics	No data available

Poly(oxy-1,2-ethanediyl), .alpha.-octyl-.omega.-hydroxy-	
Boiling point	204 °C (at 1020 hPa)
Flash point	107 °C Atm. press.: 102,2 kPa
Vapor pressure	7.72 Pa Temp.: 25 °C
Particle characteristics	No data available

2-Propanol, 1-phenoxy-	
Boiling point	241.2 °C Atm. press.: 1013,25 hPa Decomposition: 'no'
Flash point	≈ 115 °C Atm. press.: 760 mm Hg
Vapor pressure	< 0.013 kPa (at 25 °C)

2-Propanol, 1-phenoxy-	
Particle characteristics	No data available

Alcohols, C9-11, ethoxylated	
Boiling point	260 °C
Flash point	125 °C
Vapor pressure	117 Pa Temp.: 20 °C
Particle characteristics	No data available

Benzenesulfonic acid, C10-16-alkyl derivatives	
Particle characteristics	No data available

Sulfuric acid	
Boiling point	279.6 °C (at 1013 hPa)
Vapor pressure	0.7 hPa (at 25 °C (Sulfuric acid 97-98%)
Particle characteristics	No data available

2-Pyrrolidinone, 1-octyl-	
Boiling point	292 – 305 °C (at 1009 hPa)
Flash point	113 °C (closed cup)
Particle characteristics	No data available

L-Lactic acid	
Boiling point	> 100 °C
Vapor pressure	≈ 0.0286 mm Hg Temp.: 25 °C
Particle characteristics	No data available

.beta.-Alanine, N-(2-carboxyethyl)-N-dodecyl-, monosodium salt	
Boiling point	≥ 217 °C (at 1014 hPa)
Flash point	246 °C (closed cup)
Vapor pressure	≤ 0.45 Pa Temp.: 20 °C
Particle characteristics	No data available

Citric acid	
Auto-ignition temperature	1010 °C
Vapor pressure	0.00000221 Pa Temp.: 25 °C
Particle characteristics	No data available

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

VOC content : 0 %

SECTION 10 Stability and reactivity

10.1. Reactivity

No dangerous reactions known under normal conditions of use. May be corrosive to metals.

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

Steel. Strong bases. Strong oxidizers.

10.6. Hazardous decomposition products

May include, and are not limited to: oxides of carbon. Oxides of sodium.

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

Dibutyl thiourea (109-46-6)	
LD50 oral rat	> 2000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method), Guideline: EU Method B.1 tris (Acute Oral Toxicity - Acute Toxic Class Method)

2-Propanol, 1-phenoxy- (770-35-4)	
LD50 oral rat	2830 mg/kg (Source: NZ_CCID)
LD50 dermal rat	> 2000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Remarks on results: other:
LD50 dermal rabbit	> 2000 mg/kg (Source: ECHA)
LC50 inhalation rat	> 5.4 mg/l/4h

Alcohols, C9-11, ethoxylated (68439-46-3)	
LD50 oral rat	1400 mg/kg (Source: NZ_CCID)
LD50 dermal rat	> 2000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LC50 inhalation rat	> 1.6 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)

Benzenesulfonic acid, C10-16-alkyl derivatives (68584-22-5)	
LD50 oral rat	775 mg/kg (Source: CHEMVIEW)
LD50 dermal rabbit	2000 mg/kg (Source: CHEMVIEW)
LC50 inhalation rat	> 1.9 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)

Sulfuric acid (7664-93-9)	
LD50 oral rat	2140 mg/kg (Source: JAPAN_GHS)
LC50 inhalation rat	0.375 mg/l/4h

2-Pyrrolidinone, 1-octyl- (2687-94-7)	
LD50 oral rat	2050 mg/kg (Source: NZ_CCID)
LD50 dermal rat	> 4000 mg/kg (Source: ECHA_API)

L-Lactic acid (79-33-4)	
LD50 oral rat	3730 mg/kg (Source: IUCLID)
LD50 dermal rabbit	> 2000 mg/kg (Source: NICNAS)
LC50 inhalation rat	> 7.94 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)

Citric acid (77-92-9)	
LD50 oral	5400 mg/kg body weight Animal: mouse, Guideline: OECD Guideline 401 (Acute Oral Toxicity), 95% CL: 4500 - 6400
LD50 dermal rat	> 2000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)

Skin corrosion/irritation : Not classified.
pH: 2 – 3

Sani-Cide EX3 (10X)	
Skin corrosion/irritation, rabbit	1.9 (Draize score)

Citric acid (77-92-9)	
pH	2.1 (conc: 0.1 M (solution)

Serious eye damage/irritation : Causes serious eye damage.
pH: 2 – 3

Citric acid (77-92-9)	
pH	2.1 (conc: 0.1 M (solution)

Respiratory or skin sensitization : May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified.

Reproductive toxicity : Not classified

2-Pyrrolidinone, 1-octyl- (2687-94-7)	
NOAEL (animal/male, F0/P)	1000 mg/kg body weight Animal: rat, Animal sex: male, Guideline: OECD Guideline 443 (Extended One-Generation Reproductive Toxicity Study), Guideline: OECD Guideline 415 [One-Generation Reproduction Toxicity Study (before 9 October 2017)]
NOAEL (animal/female, F0/P)	100 mg/kg body weight Animal: rat, Animal sex: female, Guideline: OECD Guideline 443 (Extended One-Generation Reproductive Toxicity Study), Guideline: OECD Guideline 415 [One-Generation Reproduction Toxicity Study (before 9 October 2017)]

Phosphoric acid, bis(2-ethylhexyl) ester (298-07-7)	
NOAEL (animal/male, F0/P)	150 mg/kg body weight Animal: rat, Animal sex: male
NOAEL (animal/female, F0/P)	> 750 mg/kg body weight Animal: rat, Animal sex: female

STOT-single exposure : Not classified

Citric acid (77-92-9)	
STOT-single exposure	May cause respiratory irritation.

STOT-repeated exposure : Not classified

Dibutyl thiourea (109-46-6)	
STOT-repeated exposure	Causes damage to organs through prolonged or repeated exposure.

Sodium 1-octanesulfonate (5324-84-5)	
NOAEL (oral,rat,90 days)	> 430 mg/kg body weight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)

2-Propanol, 1-phenoxy- (770-35-4)	
NOAEL (oral,rat,90 days)	146 mg/kg body weight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)

Alcohols, C9-11, ethoxylated (68439-46-3)	
NOAEL (oral,rat,90 days)	≥ 500 mg/kg body weight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)

Benzenesulfonic acid, C10-16-alkyl derivatives (68584-22-5)	
NOAEL (oral,rat,90 days)	500 mg/kg body weight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity in Rodents)
NOAEL (dermal,rat/rabbit,90 days)	> 1000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 410 (Repeated Dose Dermal Toxicity: 21/28-Day Study)

.beta.-Alanine, N-(2-carboxyethyl)-N-dodecyl-, monosodium salt (14960-06-6)	
NOAEL (oral,rat,90 days)	160 mg/kg body weight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test), Guideline: other:

Citric acid (77-92-9)	
LOAEL (oral,rat,90 days)	8000 mg/kg body weight Animal: rat
NOAEL (oral,rat,90 days)	4000 mg/kg body weight Animal: rat

Aspiration hazard : Not classified

Sani-Cide EX3 (10X)	
Viscosity, kinematic	No data available

Phosphoric acid, bis(2-ethylhexyl) ester (298-07-7)	
Viscosity, kinematic	42.041 mm²/s

Symptoms/effects after inhalation : May cause irritation to the respiratory tract.

Symptoms/effects after skin contact : Causes mild skin irritation. Repeated exposure may cause skin dryness or cracking. May cause an allergic skin reaction.

Symptoms/effects after eye contact : Causes serious eye damage. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. May cause burns.

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

Other information : Likely routes of exposure: ingestion, inhalation, skin and eye.

SECTION 12 Ecological information

12.1. Ecotoxicity

Ecology - general : May cause long-term adverse effects in the aquatic environment.

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

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

Dibutyl thiourea (109-46-6)	
LC50 - Fish [1]	17.8 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
EC50 - Crustacea [1]	3.8 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	6.9 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)

Sodium 1-octanesulfonate (5324-84-5)	
LC50 - Fish [1]	> 100 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
EC50 - Crustacea [1]	421 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	> 100 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)

Poly(oxy-1,2-ethanediyl), .alpha.-octyl-.omega.-hydroxy- (27252-75-1)	
EC50 - Crustacea [1]	40 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	14 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)

2-Propanol, 1-phenoxy- (770-35-4)	
LC50 - Fish [1]	280 mg/l Test organisms (species): Pimephales promelas
EC50 - Crustacea [1]	> 100 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	> 100 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)

Alcohols, C9-11, ethoxylated (68439-46-3)	
LC50 - Fish [1]	5 – 7 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
EC50 - Crustacea [1]	2.5 mg/l Test organisms (species): Daphnia magna
EC50 96h - Algae [1]	1.4 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)

Benzenesulfonic acid, C10-16-alkyl derivatives (68584-22-5)	
LC50 - Fish [1]	3 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static] Source: IUCLID)
EC50 - Crustacea [1]	2.9 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 72h - Algae [1]	> 1000 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
EC50 96h - Algae [1]	> 1000 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)

Sulfuric acid (7664-93-9)	
LC50 - Fish [1]	> 500 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [static] Source: IUCLID)

Sulfuric acid (7664-93-9)	
EC50 - Crustacea [1]	> 100 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	> 100 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
NOEC (chronic)	0.15 mg/l Test organisms (species): other:Tanytarsus dissimilis
NOEC chronic fish	0.31 mg/l Test organisms (species): Salvelinus fontinalis

2-Pyrrolidinone, 1-octyl- (2687-94-7)	
LC50 - Fish [1]	12.8 – 44.8 mg/l (Exposure time: 96 h - Species: Danio rerio [static] Source: ECHA)
EC50 - Crustacea [1]	7.59 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	19 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
LOEC (chronic)	5 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic)	2.5 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic fish	0.91 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio) Duration: '35 d'

L-Lactic acid (79-33-4)	
LC50 - Fish [1]	320 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [semi-static] Source: IUCLID)
EC50 - Crustacea [1]	240 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 - Fish [2]	100 – 180 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static] Source: EPA)
EC50 - Crustacea [2]	180 – 320 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])

.beta.-Alanine, N-(2-carboxyethyl)-N-dodecyl-, monosodium salt (14960-06-6)	
LC50 - Fish [1]	4.2 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
EC50 - Crustacea [1]	1.71 mg/l Test organisms (species): Daphnia magna
LC50 - Fish [2]	≈ 4.2 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
EC50 - Crustacea [2]	5.7 mg/l Test organisms (species): Daphnia magna

Citric acid (77-92-9)	
LC50 - Fish [1]	1516 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus Source: OECD_SIDS)

12.2. Persistence and degradability

Sani-Cide EX3 (10X)	
Persistence and degradability	Not established.

Quaternary Amine Compound (Trade Secret)	
Persistence and degradability	Rapidly degradable

Dibutyl thiourea (109-46-6)	
Persistence and degradability	Rapidly degradable

Sodium 1-octanesulfonate (5324-84-5)	
Persistence and degradability	Rapidly degradable

Poly(oxy-1,2-ethanediyl), .alpha.-octyl-.omega.-hydroxy- (27252-75-1)	
Persistence and degradability	Rapidly degradable

2-Propanol, 1-phenoxy- (770-35-4)	
Persistence and degradability	Rapidly degradable

Alcohols, C9-11, ethoxylated (68439-46-3)	
Persistence and degradability	Rapidly degradable

Benzenesulfonic acid, C10-16-alkyl derivatives (68584-22-5)	
Persistence and degradability	Rapidly degradable

Sulfuric acid (7664-93-9)	
Persistence and degradability	Rapidly degradable

2-Pyrrolidinone, 1-octyl- (2687-94-7)	
Persistence and degradability	Rapidly degradable

L-Lactic acid (79-33-4)	
Persistence and degradability	Rapidly degradable

.beta.-Alanine, N-(2-carboxyethyl)-N-dodecyl-, monosodium salt (14960-06-6)	
Persistence and degradability	Rapidly degradable

Citric acid (77-92-9)	
Persistence and degradability	Rapidly degradable

12.3. Bioaccumulative potential

Sani-Cide EX3 (10X)	
Bioaccumulative potential	Not established.

Dibutyl thiourea (109-46-6)	
Partition coefficient n-octanol/water	2.75 (at pH 12)

2-Propanol, 1-phenoxy- (770-35-4)	
Partition coefficient n-octanol/water	1.48 (at 24.1 °C (at pH 5)

Benzenesulfonic acid, C10-16-alkyl derivatives (68584-22-5)	
Partition coefficient n-octanol/water	2 (at 23 °C)

Sulfuric acid (7664-93-9)	
BCF - Fish [1]	(no bioaccumulation)

2-Pyrrolidinone, 1-octyl- (2687-94-7)	
Partition coefficient n-octanol/water	4.15 (at 20 °C (at pH 7)

L-Lactic acid (79-33-4)	
Partition coefficient n-octanol/water	-0.54 (at 25 °C)

.beta.-Alanine, N-(2-carboxyethyl)-N-dodecyl-, monosodium salt (14960-06-6)	
Partition coefficient n-octanol/water	≤ -2.12 (at 20 °C)

Citric acid (77-92-9)	
Partition coefficient n-octanol/water	-1.72 (at 20 °C)

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Ozone : Not classified
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. The generation of waste should be avoided or minimized wherever possible.

SECTION 14 Transport information

In accordance with DOT / IMDG / IATA

DOT	IMDG	IATA
14.1. UN number		
UN1760	1760	1760
14.2. Proper Shipping Name		
Corrosive liquids, n.o.s. (Sodium 1-octanesulfonate ; L-Lactic acid)	CORROSIVE LIQUID, N.O.S. (Sodium 1-octanesulfonate ; L-Lactic acid)	Corrosive liquid, n.o.s. (Sodium 1-octanesulfonate ; L-Lactic acid)
14.3. Transport hazard class(es)		
8	8	8
		
14.4. Packing group		
III	III	III
14.5. Environmental hazards		
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No
No supplementary information available.		

14.6. Transport in bulk

Not applicable

14.7. Special precautions for user

Special transport precautions : Do not handle until all safety precautions have been read and understood.

DOT

UN-No. (DOT)	:	UN1760
DOT Special Provisions (49 CFR 172.102)	:	IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672). T7 - 4 178.274(d)(2) Normal..... 178.275(d)(3) TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = 97 / 1 + a (tr - tf) Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling. TP28 - A portable tank having a minimum test pressure of 2.65 bar (265 kPa) may be used provided the calculated test pressure is 2.65 bar or less based on the MAWP of the hazardous material, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the MAWP.
DOT Packaging Exceptions (49 CFR 173.xxx)	:	154
DOT Packaging Non Bulk (49 CFR 173.xxx)	:	203
DOT Packaging Bulk (49 CFR 173.xxx)	:	241
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	:	5 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	:	60 L
DOT Vessel Stowage Location	:	A - The material may be stowed ‘‘on deck’’ or ‘‘under deck’’ on a cargo vessel and on a passenger vessel.
DOT Vessel Stowage Other	:	40 - Stow ‘‘clear of living quarters’’

IMDG
No data available

IATA
No data available

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

FIFRA Labelling	
EPA Registration Number	42048-3
This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label.	
FIFRA Signal Word	Danger
FIFRA Human Health Hazards	Corrosive. Causes irreversible eye damage. Do not get in eyes or on clothing. Do not contaminate water, food or feed by storage or disposal.

15.2. International regulations

No additional information available

15.3. State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

SECTION 16 Other information

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2024

Revision date	:	8/15/2025
Issue date	:	8/15/2025
Other information	:	None.
Prepared by	:	Nexreg Compliance Inc. www.Nexreg.com

Safety Data Sheet (SDS), USA

Disclaimer: We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind. The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for the user's own particular use.