

1. Identification

Product identifier REDKEN CITY BEATS COLOR REMOVER

Other means of identification

SDS number 50-23-0000025

Recommended use Personal care product used for cosmetic effect.

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

US Address: L'Oreal USA Products, Inc
133 Terminal Avenue
Clark, NJ 07066
USA

Canadian Address: L'Oreal Canada
4895 rue Hickmore
Ville St-Laurent, H4T 1K5
Canada

Emergency Phone # : 1-800-535-5053 (International: 352-323-3500)
In Canada - 1-613-996-6666 (Canutec (*666 Cellular))

For further Information: 1-732-499-2741

Poison Control # : 412-390-3326

2. Hazard(s) identification

Physical hazards	Oxidizing solids	Category 2
Health hazards	Acute toxicity, oral	Category 4
	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 1
	Sensitization, respiratory	Category 1
	Sensitization, skin	Category 1
	Specific target organ toxicity, single exposure	Category 3 respiratory tract irritation
	Specific target organ toxicity, repeated exposure	Category 2
OSHA defined hazards	Not classified.	

Label elements



Signal word Danger

Hazard statement May intensify fire; oxidizer. Harmful if swallowed. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation. May cause damage to organs through prolonged or repeated exposure.

Precautionary statement

Prevention

Keep away from heat. Keep/Store away from clothing/combustible materials. Take any precaution to avoid mixing with combustibles. Do not breathe dust. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/eye protection/face protection. In case of inadequate ventilation wear respiratory protection.

Response

If swallowed: Call a poison center/doctor if you feel unwell. Rinse mouth. If on skin: Wash with plenty of water. 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/doctor. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. In case of fire: Use appropriate media to extinguish.

Storage

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

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC)

None known.

Supplemental information

None.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
SODIUM PERSULFATE		7775-27-1	33
POTASSIUM PERSULFATE		7727-21-1	20
SODIUM LAURYL SULFATE		68955-19-1	14
SODIUM METASILICATE		6834-92-0	9
AMMONIUM CHLORIDE		12125-02-9	5
DIETHYLHEXYL SODIUM SULFOSUCCINATE		577-11-7	1.7
EDTA		60-00-4	1

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If experiencing respiratory symptoms: Call a poison center or doctor/physician.

Skin contact

If on clothing: Rinse immediately contaminated clothing and skin with plenty of water before removing clothes. Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions. Wash contaminated clothing before reuse.

Eye contact

Do not rub eyes. Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.

Ingestion

Rinse mouth. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Get medical advice/attention if you feel unwell.

Most important symptoms/effects, acute and delayed

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. May cause respiratory irritation. Difficulty in breathing. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash. Prolonged exposure may cause chronic effects.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

General information

Take off all contaminated clothing immediately. Contact with combustible material may cause fire. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.

5. Fire-fighting measures

Suitable extinguishing media

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

Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	Greatly increases the burning rate of combustible materials. Containers may explode when heated. During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk. Use water spray to cool unopened containers.
Specific methods	Cool containers exposed to flames with water until well after the fire is out.
General fire hazards	May intensify fire; oxidizer. Contact with combustible material may cause fire.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep away from clothing and other combustible materials. Wear appropriate protective equipment and clothing during clean-up. Do not breathe dust. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Keep combustibles (wood, paper, oil, etc.) away from spilled material. Ventilate the contaminated area. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Minimize dust generation and accumulation. Collect dust using a vacuum cleaner equipped with HEPA filter. Wear appropriate protective equipment and clothing during clean-up. Stop the flow of material, if this is without risk. Large Spills: Wet down with water and dike for later disposal. Absorb in vermiculite, dry sand or earth and place into containers. Shovel the material into waste container. Following product recovery, flush area with water. Small Spills: Sweep up or vacuum up spillage and collect in suitable container for disposal. Clean surface thoroughly to remove residual contamination. Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling	Minimize dust generation and accumulation. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Keep away from heat. Provide appropriate exhaust ventilation at places where dust is formed. Take any precaution to avoid mixing with combustibles. Keep away from clothing and other combustible materials. Do not breathe dust. Do not get this material in contact with eyes. Do not taste or swallow. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities	Store locked up. Keep away from heat. Store in a cool, dry place out of direct sunlight. Store in tightly closed container. Store in a well-ventilated place. Do not store near combustible materials. Keep out of the reach of children. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

US. OSHA Table Z-3 (29 CFR 1910.1000)

Components	Type	Value	Form
AMMONIUM CHLORIDE (CAS 12125-02-9)	TWA	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
		50 mppcf	Total dust.
		15 mppcf	Respirable fraction.

US. ACGIH Threshold Limit Values

Components	Type	Value	Form
AMMONIUM CHLORIDE (CAS 12125-02-9)	STEL	20 mg/m3	Fume.
	TWA	10 mg/m3	Fume.
POTASSIUM PERSULFATE (CAS 7727-21-1)	TWA	0.1 mg/m3	
SODIUM PERSULFATE (CAS 7775-27-1)	TWA	0.1 mg/m3	

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value	Form
AMMONIUM CHLORIDE (CAS 12125-02-9)	STEL	20 mg/m3	Fume.
	TWA	10 mg/m3	Fume.

Biological limit values

No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. If engineering measures are not sufficient to maintain concentrations of dust particulates below the Occupational Exposure Limit (OEL), suitable respiratory protection must be worn. If material is ground, cut, or used in any operation which may generate dusts, use appropriate local exhaust ventilation to keep exposures below the recommended exposure limits. Provide eyewash station and safety shower.

Individual protection measures, such as personal protective equipment**Eye/face protection**

Applicable for industrial settings only. Chemical respirator with organic vapor cartridge, full facepiece, dust and mist filter.

Skin protection**Hand protection**

Applicable for industrial settings only. Wear appropriate chemical resistant gloves. Frequent change is advisable.

Other

Applicable for industrial settings only. Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

Respiratory protection

Applicable for industrial settings only. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. Chemical respirator with organic vapor cartridge, full facepiece, dust and mist filter.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Keep from contact with clothing and other combustible materials. Remove and wash contaminated clothing promptly. Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.

9. Physical and chemical properties**Appearance****Physical state**

Solid.

Form

Powder.

Color

Shaded

Odor

Not available.

Odor threshold

Not available.

pH

Not applicable.

Melting point/freezing point

Not available.

Initial boiling point and boiling range

Not available.

Flash point

Not available.

Evaporation rate

Not available.

Flammability (solid, gas)

Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.

Vapor pressure Not available.

Vapor density Not available.

Relative density Not available.

Solubility(ies)

Solubility (water) Not available.

Partition coefficient (n-octanol/water) Not available.

Auto-ignition temperature Not available.

Decomposition temperature Not available.

Viscosity Not available.

Other information

Explosive properties Not explosive.

Oxidizing properties May intensify fire; oxidizer.

10. Stability and reactivity

Reactivity Greatly increases the burning rate of combustible materials.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous reactions No dangerous reaction known under conditions of normal use.

Conditions to avoid Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Contact with incompatible materials.

Incompatible materials Strong oxidizing agents. Combustible material. Reducing agents.

Hazardous decomposition products No hazardous decomposition products are known.

11. Toxicological information**Information on likely routes of exposure**

Inhalation May cause irritation to the respiratory system. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Prolonged inhalation may be harmful.

Skin contact Causes skin irritation. May cause an allergic skin reaction.

Eye contact Causes serious eye damage.

Ingestion Harmful if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. May cause respiratory irritation. Difficulty in breathing. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.

Information on toxicological effects

Acute toxicity Harmful if swallowed.

Product	Species	Test Results
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REDKEN CITY BEATS COLOR REMOVER

Acute**Inhalation**

Dust

ATEmix

101 mg/l

Oral

ATEmix

1230 mg/kg

Components	Species	Test Results
AMMONIUM CHLORIDE (CAS 12125-02-9)		
<u>Acute</u>		
Dermal		
LD50	Rat	> 2000 mg/kg EU Method B.3
Oral		
LD50	Rat	1410 mg/kg OECD 401
DIETHYLHEXYL SODIUM SULFOSUCCINATE (CAS 577-11-7)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	> 10000 mg/kg OECD 402
Oral		
LD50	Rat	> 2100 mg/kg OECD 401
EDTA (CAS 60-00-4)		
<u>Acute</u>		
Inhalation		
<i>Dust</i>		
LC50	Rat	> 1 mg/L air, 6 h OECD 403
Oral		
LD50	Rat	4500 mg/kg bw OECD 401
POTASSIUM PERSULFATE (CAS 7727-21-1)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	> 10000 mg/kg
Inhalation		
LC50	Rat	> 42.9 mg/l, 1 h
Oral		
LD50	Rat	1130 mg/kg OECD 401
SODIUM LAURYL SULFATE (CAS 68955-19-1)		
<u>Acute</u>		
Dermal		
LD50	Rat	> 2000 mg/kg OECD 402
Oral		
LD50	Rat	4010 mg/kg OECD 401
SODIUM METASILICATE (CAS 6834-92-0)		
<u>Acute</u>		
Dermal		
LD50	Rat	> 5000 mg/kg Based on test data for structurally similar materials.
Inhalation		
LC50	Rat	> 2.06 mg/l, 4.4 h Based on test data for structurally similar materials.
Oral		
LD50	Rat	1152 mg/kg
SODIUM PERSULFATE (CAS 7775-27-1)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	> 10000 mg/kg
Inhalation		
<i>Dust</i>		
LC50	Rat	> 5.1 mg/l, 4 h OECD 403

Components	Species	Test Results
Oral LD50	Rat	920 mg/kg OECD 401
Skin corrosion/irritation	Causes skin irritation.	
Irritation Corrosion - Skin		
AMMONIUM CHLORIDE		Draize Result: Not Irritating Species: Rabbit
SODIUM METASILICATE		OECD 404 Result: Corrosive Species: Rabbit
DIETHYLHEXYL SODIUM SULFOSUCCINATE		OECD 404 Result: Irritating Species: Rabbit
SODIUM LAURYL SULFATE		OECD 404, (88.7% a.i.) Result: Irritating Species: Rabbit
POTASSIUM PERSULFATE		Result: Irritating Species: Human
SODIUM PERSULFATE		Result: Irritating Species: Human
EDTA		Result: Not Irritating Species: Rabbit
Serious eye damage/eye irritation	Causes serious eye damage.	
Irritation Corrosion - Eye		
SODIUM METASILICATE		IRE Result: Corrosive Species: In vitro
DIETHYLHEXYL SODIUM SULFOSUCCINATE		OECD 405 Result: Corrosive Species: Rabbit
POTASSIUM PERSULFATE		Result: Irritating Species: Human
SODIUM PERSULFATE		Result: Irritating Species: Human
AMMONIUM CHLORIDE		Result: Irritating Species: Rabbit
EDTA		Result: Irritating Species: Rabbit
Respiratory or skin sensitization		
Respiratory sensitization	May cause allergy or asthma symptoms or breathing difficulties if inhaled.	
POTASSIUM PERSULFATE		Result: Sensitizing Species: Human
SODIUM PERSULFATE		Result: Sensitizing Species: Human
Skin sensitization	May cause an allergic skin reaction.	
Sensitization		
SODIUM PERSULFATE		OECD 406 Result: Sensitizing Species: Guinea pig
POTASSIUM PERSULFATE		OECD 429 Result: Sensitizing Species: Mouse
Skin sensitization		
EDTA		OECD 406 Result: Not Sensitizing Species: Guinea pig
SODIUM LAURYL SULFATE		OECD 406 Result: Not Sensitizing Species: Guinea pig
SODIUM PERSULFATE		OECD 406 Result: Sensitizing Species: Guinea pig

Skin sensitization

SODIUM METASILICATE

OECD 429

Result: Not Sensitizing

Species: Mouse

POTASSIUM PERSULFATE

OECD 429

Result: Sensitizing

Species: Guinea pig

AMMONIUM CHLORIDE

Result: Not Sensitizing

Species: Guinea pig

DIETHYLHEXYL SODIUM SULFOSUCCINATE

Result: Not Sensitizing

Species: Human

Germ cell mutagenicity

Due to partial or complete lack of data the classification is not possible.

Mutagenicity

EDTA

Result: In vitro and in vivo tests did not show mutagenic effects.

SODIUM METASILICATE

Result: In vitro and in vivo tests did not show mutagenic effects.

SODIUM PERSULFATE

Result: In vitro and in vivo tests did not show mutagenic effects.

DIETHYLHEXYL SODIUM SULFOSUCCINATE

Result: In vitro tests did not show mutagenic effects

POTASSIUM PERSULFATE

Result: In vitro tests did not show mutagenic effects

SODIUM LAURYL SULFATE

Result: In vitro tests did not show mutagenic effects

AMMONIUM CHLORIDE

Result: In vitro tests showed mutagenic effects which were not observed with in vivo tests.

Carcinogenicity

Not classifiable as to carcinogenicity to humans. Due to partial or complete lack of data the classification is not possible.

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

Reproductive toxicity

Due to partial or complete lack of data the classification is not possible.

Developmental effects

SODIUM METASILICATE

> 200 mg/kg bw/d

Result: NOAEL

Species: Mouse

EDTA

>= 967 mg/kg bw/d

Result: NOAEL

Species: Rat

DIETHYLHEXYL SODIUM SULFOSUCCINATE

1074 mg/kg bw/d OECD 414

Result: NOAEL

Species: Rat

SODIUM LAURYL SULFATE

250 mg/kg bw/d OECD 414, Based on test data for structurally similar materials.

Result: NOEL

Species: Rat

AMMONIUM CHLORIDE

8.9 mg/kg bw/d

Result: NOAEL

Species: Rat

Reproductivity

SODIUM METASILICATE

> 159 mg/kg bw/d

Result: NOAEL

Species: Rat

DIETHYLHEXYL SODIUM SULFOSUCCINATE

7500 mg/kg bw/d OECD 416

Result: NOEL

Species: Rat

Specific target organ toxicity - single exposure

May cause respiratory irritation.

SODIUM LAURYL SULFATE

Result: Irritating

SODIUM METASILICATE

Result: Irritating

POTASSIUM PERSULFATE

Result: Irritating

Species: Human

Specific target organ toxicity - single exposure

SODIUM PERSULFATE

Result: Irritating
Species: Human**Specific target organ toxicity - repeated exposure**

May cause damage to organs through prolonged or repeated exposure.

SODIUM METASILICATE

> 227 mg/kg bw/d OECD 408, Oral

Result: NOAEL

Species: Rat

Test Duration: 90 d

EDTA

>= 500 mg/kg bw/d, Oral

Result: NOAEL

Species: Rat

Test Duration: 13 wk

POTASSIUM PERSULFATE

131.5 mg/kg bw/d OECD 407

Result: NOAEL

Species: Rat

Test Duration: 28 d

AMMONIUM CHLORIDE

1695 mg/kg bw/d OECD 408

Result: NOAEL

Species: Rat

Test Duration: 90 d

SODIUM PERSULFATE

200 mg/kg bw/d OECD 408

Result: LOAEL

Species: Rat

EDTA

3 mg/m³ air OECD 413, Inhalation

Result: NOAEC

Species: Rat

Test Duration: 13 wk

DIETHYLHEXYL SODIUM SULFOSUCCINATE

750 mg/kg bw/d OECD 408, Oral

Result: NOAEL

Species: Rat

Test Duration: 90 d

Aspiration hazard

Due to partial or complete lack of data the classification is not possible.

Chronic effects

May cause damage to organs through prolonged or repeated exposure.

Further information

May cause allergic respiratory and skin reactions. The reference to any animal testing for individual constituents mentioned in this document is based on public, third-party data.

12. Ecological information**Ecotoxicity**

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components		Species	Test Results
AMMONIUM CHLORIDE (CAS 12125-02-9)			
Aquatic			
Crustacea	EC50	American lobster (<i>Homarus americanus</i>)	0.237 - 0.288 mg/l, 48 hours
Fish	LC50	Rainbow trout, donaldson trout (<i>Oncorhynchus mykiss</i>)	0.42 - 0.56 mg/l, 96 hours
DIETHYLHEXYL SODIUM SULFOSUCCINATE (CAS 577-11-7)			
Aquatic			
<i>Acute</i>			
Algae	EC50	<i>Desmodesmus subspicatus</i>	82.5 mg/l, 72 h
Crustacea	EC50	<i>Daphnia magna</i>	6.6 mg/l, 48 h
Fish	LC50	<i>Danio rerio</i>	94 mg/l, 96 h
Other	EC50	<i>Pseudomonas putida</i>	164 mg/l, 16.5 h
<i>Chronic</i>			
Crustacea	EC10	<i>Daphnia magna</i>	9 mg/l, 21 d OECD 211

Components		Species	Test Results
EDTA (CAS 60-00-4)			
Aquatic			
<i>Acute</i>			
Crustacea	EC50	Daphnia magna	113 mg/l, 48 h
Fish	LC50	Lepomis macrochirus	159 mg/l, 96 h
SODIUM LAURYL SULFATE (CAS 68955-19-1)			
Aquatic			
<i>Acute</i>			
Algae	EC50	Desmodesmus subspicatus	20 mg/l, 72 h EU C.3
Crustacea	EC50	Daphnia magna	2.8 mg/l, 48 h OECD 202
Fish	LC50	Danio rerio	1.3 mg/l, 96 h OECD 203
Other	EC50	Activated sludge of a predominantly domestic sewage	680 mg/l, 3 h EU C.11
<i>Chronic</i>			
Crustacea	NOEC	Daphnia magna	0.14 mg/l, 21 d OECD 202
Fish	NOEC	Pimephales promelas	0.11 mg/l, 34 d OECD 210
SODIUM METASILICATE (CAS 6834-92-0)			
Aquatic			
<i>Acute</i>			
Algae	EC50	Pseudokirchneriella subcapitata	> 207 mg/l, 72 h DIN 38412, Pt. 9
Crustacea	EC50	Daphnia magna	> 1700 mg/l, 48 h EU C.2
Fish	LC50	Danio rerio	> 210 mg/l, 96 h OECD 203
Other	EC50	Activated sludge of a predominantly domestic sewage	100 mg/l, 3 h OECD 209
SODIUM PERSULFATE (CAS 7775-27-1)			
Aquatic			
<i>Acute</i>			
Algae	EC50	Pseudokirchneriella subcapitata	116 mg/l, 72 h OECD 201
Crustacea	EC50	Daphnia magna	133 mg/l, 48 h EPA OPP 72-2
Fish	LC50	Oncorhynchus mykiss	163 mg/l, 96 h EPA OPP 72-1
Persistence and degradability			
Biodegradability			
Percent degradation (Aerobic biodegradation)			
POTASSIUM PERSULFATE			Result: Not expected to bioaccumulate
SODIUM LAURYL SULFATE			93 % EU C.4-C
			Result: Readily Biodegradable
			Test Duration: 28 d
Percent degradation (Aerobic biodegradation-inherent)			
DIETHYLHEXYL SODIUM SULFOSUCCINATE			91.2 % ISO 14593
			Result: Readily Biodegradable
			Species: Activated sludge of a predominantly domestic sewage
			Test Duration: 28 d
Bioaccumulative potential			
Partition coefficient n-octanol / water (log Kow)			
DIETHYLHEXYL SODIUM SULFOSUCCINATE			1.998 EU A.8
EDTA			0.13
SODIUM LAURYL SULFATE			-2.1 OECD 107
Bioconcentration factor (BCF)			
EDTA			1.8
Bioaccumulation			
EDTA			Result: Bioaccumulation is unlikely.
Mobility in soil	No data available.		

Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.
13. Disposal considerations	
Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	This product is ignitable (D001) RCRA hazardous wastes when intended for disposal.
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

DOT

FINISHED GOODS

UN number	UN1479
UN proper shipping name	OXIDIZING SOLID, N.O.S. (POTASSIUM PERSULFATE, SODIUM PERSULFATE), Limited Quantity
Class	5.1
Packing group	II
Transport hazard class(es)	
Label(s)	Limited Quantity
Packaging exceptions	152

BULK

UN number	UN1479
UN proper shipping name	OXIDIZING SOLID, N.O.S. (POTASSIUM PERSULFATE, SODIUM PERSULFATE)
Class	5.1
Packing group	II
Transport hazard class(es)	
Label(s)	5.1
Special provisions	62, IB8, IP2, IP4, T3, TP33
Packaging non bulk	212

IATA

FINISHED GOODS

UN number	UN1479
UN proper shipping name	OXIDIZING SOLID, N.O.S. (POTASSIUM PERSULFATE, SODIUM PERSULFATE), Limited Quantity
Class	5.1
Packing group	II
Transport hazard class(es)	
Label(s)	Class 5.1, Limited Quantity
ERG Number	5L

BULK

UN number	UN1479
UN proper shipping name	OXIDIZING SOLID, N.O.S. (POTASSIUM PERSULFATE, SODIUM PERSULFATE)
Class	5.1
Packing group	II
ERG Number	5L

IMDG

FINISHED GOODS

UN number	UN1479
UN proper shipping name	OXIDIZING SOLID, N.O.S. (POTASSIUM PERSULFATE, SODIUM PERSULFATE), Limited Quantity
Class	5.1
Packing group	II
Environmental Hazards	
Marine pollutant	No.

Transport hazard class(es)**Label(s)** Limited Quantity**EmS** F-A, S-Q**LTD QTY Net Inner Capacity** 1.00 KG**BULK****UN number** UN1479**UN proper shipping name** OXIDIZING SOLID, N.O.S. (POTASSIUM PERSULFATE, SODIUM PERSULFATE)**Class** 5.1**Packing group** II**Environmental hazards****Marine pollutant** No.**EmS** F-A, S-Q**15. Regulatory information****US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.**Toxic Substances Control Act (TSCA)****TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

AMMONIUM CHLORIDE (CAS 12125-02-9) Listed.

EDTA (CAS 60-00-4) Listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)**SARA 302 Extremely hazardous substance**

Not listed.

SARA 311/312 Hazardous chemical No (Exempt)**SARA 313 (TRI reporting)**

Chemical name	CAS number	% by wt.
AMMONIUM CHLORIDE	12125-02-9	5

Other federal regulations**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act (SDWA) Contains component(s) regulated under the Safe Drinking Water Act.**16. Other information, including date of preparation or last revision****Issue date** 03-24-2020**Version #** 01**NFPA ratings** Health: 3
Flammability: 0
Instability: 0
Special hazards: OX**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 information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.