

SAFETY DATA SHEET

REDKEN BLONDE IDOL 8 LIGHTNER

Version Revision Date: SDS Number: Date of last issue: -
1.0 11/12/2025 41-25- Date of first issue: 11/12/2025
400000201945

SECTION 1. IDENTIFICATION

Product name : REDKEN BLONDE IDOL 8 LIGHTNER
Formula Center Reference : 42125 RDK1

Manufacturer or supplier's details

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

Telephone : 1-732-499-2745

E-mail address : CORPREGAFFAIRSMSDS@LOREAL.COM

Emergency telephone

INFOTRAC : 1-800-535-5053 (International: +1 352-323-3500) (Available
24 hours a day. SDS/Product information may not be available
for the Emergency Service.)

Recommended use of the chemical and restrictions on use

Recommended use : Personal care product used for cosmetic effect.

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Self-reactive chemicals : Type D
Skin corrosion : Sub-category 1B
Serious eye damage : Category 1
Respiratory sensitization : Category 1
Skin sensitization : Category 1

Other hazards

None known.

GHS label elements

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Hazard pictograms

:



Signal Word

: Danger

Hazard Statements

: H242 Heating may cause a fire.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335 May cause respiratory irritation.

Precautionary Statements

: P102 Keep out of reach of children.
P103 Read carefully and follow all instructions.

Prevention:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P234 Keep only in original packaging.
P260 Do not breathe dust.
P264 Wash skin thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P272 Contaminated work clothing must not be allowed out of the workplace.
P280 Wear protective gloves, protective clothing, eye protection and face protection.
P285 In case of inadequate ventilation wear respiratory protection.

Response:

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.
P305 + P351 + P338 + P310 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.
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER/ doctor.
P362 + P364 Take off contaminated clothing and wash it before reuse.
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

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Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P403 + P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

P411 Store at temperatures not exceeding 40°C/ 104°F.

P420 Store separately.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components

Chemical name	CAS No./Unique ID	Concentration (% w/w)
MINERAL OIL	8042-47-5*	>= 10 - <= 30
POTASSIUM PERSULFATE	7727-21-1*	>= 10 - <= 30
SODIUM SILICATE	1344-09-8*	>= 10 - <= 30
AMMONIUM PERSULFATE	7727-54-0*	>= 5 - <= 10
SODIUM METASILICATE	6834-92-0*	>= 3 - <= 7
CITRIC ACID	77-92-9*	>= 3 - <= 7
POLYETHYLENE	9002-88-4*	>= 1 - <= 5
SODIUM LAURYL SULFATE	85586-07-8*	>= 0.1 - <= 1

* Indicates that the identifier is a CAS No.

SECTION 4. FIRST AID MEASURES

- General advice : Consult a physician.
- If inhaled : Move to fresh air.
Consult a physician after significant exposure.
- In case of skin contact : Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.
If on skin, rinse well with water.
If on clothes, remove clothes.
- In case of eye contact : In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Remove contact lenses.
If eye irritation persists, consult a specialist.
- If swallowed : Rinse mouth with water.
Do NOT induce vomiting.
If symptoms persist, call a physician.

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Obtain medical attention.

Most important symptoms and effects, both acute and delayed : 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.
Causes severe burns.
Corrosive to the respiratory tract.

Notes to physician : Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Alcohol-resistant foam
Carbon dioxide (CO₂)
Dry chemical

Unsuitable extinguishing media : High volume water jet

Specific hazards during fire fighting : Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : No hazardous combustion products are known.

Further information : For safety reasons in case of fire, cans should be stored separately in closed containments.
Use a water spray to cool fully closed containers.

Special protective equipment for fire-fighters : Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.
Avoid dust formation.
Avoid breathing dust.
Ensure adequate ventilation.
Remove all sources of ignition.

Environmental precautions : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.

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Methods and materials for containment and cleaning up : Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).
Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion : Avoid dust formation.
Provide appropriate exhaust ventilation at places where dust is formed.
Keep away from open flames, hot surfaces and sources of ignition.

Advice on safe handling : Avoid formation of respirable particles.
Do not breathe vapors/dust.
Avoid exposure - obtain special instructions before use.
Avoid contact with skin and eyes.
For personal protection see section 8.
Provide sufficient air exchange and/or exhaust in work rooms.
Open drum carefully as content may be under pressure.
Persons susceptible to skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

Conditions for safe storage : Store in cool place.
Observe label precautions.

Further information on storage stability : No decomposition if stored and applied as directed.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
MINERAL OIL	8042-47-5	TWA (Mist)	5 mg/m ³	OSHA Z-1
		TWA (Inhalable particulate matter)	5 mg/m ³	ACGIH
		TWA (Mist)	5 mg/m ³	NIOSH REL
		ST (Mist)	10 mg/m ³	NIOSH REL
POTASSIUM PERSULFATE	7727-21-1	TWA	0.1 mg/m ³ (Persulphate)	ACGIH
AMMONIUM PERSULFATE	7727-54-0	TWA	0.1 mg/m ³ (Persulphate)	ACGIH

Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally re-

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quired.

Hand protection

Remarks : Applicable for industrial settings only. Nitrile rubber

Eye protection : Applicable for industrial settings only.
Tightly fitting safety goggles
Wear face-shield and protective suit for abnormal processing problems.

Skin and body protection : Applicable for industrial settings only.
Work uniform or laboratory coat.

Hygiene measures : When using do not eat or drink.
When using do not smoke.
Wash hands before breaks and at the end of workday.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state : solid

Form : paste

Color : No data available

Odor : characteristic

pH : Not applicable

Melting point/freezing point : No data available

Boiling point/boiling range : Not available

Flash point : > 199 °F / > 93 °C
Method: ISO 3679

Fire Point : Not applicable

Upper explosion limit / Upper flammability limit : No data available

Lower explosion limit / Lower flammability limit : No data available

Vapor pressure : No data available

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Relative vapor density : No data available

Relative density : 1.297 - 1.303 (68 °F / 20 °C)

Partition coefficient: n-octanol/water : Not applicable

Autoignition temperature : No data available

Self-Accelerating decomposition temperature (SADT) : 131 °F / 55 °C
Packaging size (Mass): 50 kg

Viscosity
Viscosity, kinematic : Not applicable

Oxidizing properties : The substance or mixture is not classified as oxidizing.

Dust explosion class : Not applicable

Particle characteristics
Particle size : No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No dangerous reaction known under conditions of normal use.

Chemical stability : Stable under normal conditions.

Possibility of hazardous reactions : No decomposition if stored and applied as directed.

Conditions to avoid : Heat, flames and sparks.

Incompatible materials : Not applicable

Hazardous decomposition products : No hazardous decomposition products are known.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Based on available data, the classification criteria are not met.

Product:

Acute oral toxicity : Acute toxicity estimate: 2,399 mg/kg
Method: Calculation method

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Components:

MINERAL OIL:

- Acute oral toxicity : LD50 (Rat, male and female): > 5,000 mg/kg
Method: OECD Test Guideline 401
Assessment: The substance or mixture has no acute oral toxicity
- Acute inhalation toxicity : LC50 (Rat, male and female): > 5 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
Assessment: The substance or mixture has no acute inhalation toxicity
- Acute dermal toxicity : LD50 (Rabbit, male and female): > 2,000 mg/kg
Method: OECD Test Guideline 402
Assessment: The substance or mixture has no acute dermal toxicity

POTASSIUM PERSULFATE:

- Acute oral toxicity : LD50 (Rat, male): 1,130 mg/kg
Method: OECD Test Guideline 401
- Acute inhalation toxicity : LC50 (Rat, male and female): >= 2.95 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Assessment: The substance or mixture has no acute inhalation toxicity
- Acute dermal toxicity : LD50 (Rat, male and female): > 2,000 mg/kg
Assessment: The substance or mixture has no acute dermal toxicity

SODIUM SILICATE:

- Acute oral toxicity : LD50 (Rat, male and female): 3,400 mg/kg
Method: OECD Test Guideline 401
- Acute inhalation toxicity : LC50 (Rat, male and female): 2.06 mg/l
Exposure time: 4 h
Test atmosphere: vapor
Method: OPPTS 870.1300
Assessment: The substance or mixture has no acute inhalation toxicity
- Acute dermal toxicity : LD50 (Rat, male and female): > 5,000 mg/kg
Method: OPPTS 870.1200
Assessment: The substance or mixture has no acute dermal toxicity

AMMONIUM PERSULFATE:

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Acute oral toxicity : LD50 (Rat, female): 700 mg/kg
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat, male and female): 2.95 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OPPTS 870.1300
Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 (Rat, male and female): > 2,000 mg/kg
Assessment: The substance or mixture has no acute dermal toxicity

SODIUM METASILICATE:

Acute oral toxicity : LD50 (Rat, male and female): 1,349 mg/kg
Assessment: The substance or mixture has no acute oral toxicity

Acute inhalation toxicity : LC50 (Rat, male and female): > 2.06 mg/l
Exposure time: 4 h
Test atmosphere: vapor
Method: OPPTS 870.1300
Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 (Rat, male and female): > 5,000 mg/kg
Method: OPPTS 870.1200

CITRIC ACID:

Acute oral toxicity : LD50 (Mouse, male and female): 5,400 mg/kg
Method: OECD Test Guideline 401
Assessment: The substance or mixture has no acute oral toxicity

Acute dermal toxicity : LD50 (Rat, male and female): > 2,000 mg/kg
Method: OECD Test Guideline 402
Assessment: The substance or mixture has no acute dermal toxicity

SODIUM LAURYL SULFATE:

Acute oral toxicity : LD50 (Rat, male and female): 1,800 mg/kg
Method: OECD Test Guideline 401

Acute dermal toxicity : LD50 (Rat, male and female): > 2,000 mg/kg
Assessment: The substance or mixture has no acute dermal toxicity

Skin corrosion/irritation

Causes severe burns.

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Components:

MINERAL OIL:

Species : Rabbit
Method : OECD Test Guideline 404
Result : No skin irritation

POTASSIUM PERSULFATE:

Species : Rabbit
Method : OECD Test Guideline 404
Result : Skin irritation

SODIUM SILICATE:

Species : Rabbit
Method : OECD Test Guideline 404
Result : Skin irritation

AMMONIUM PERSULFATE:

Species : Rabbit
Method : OECD Test Guideline 404
Result : Skin irritation

SODIUM METASILICATE:

Species : Rabbit
Method : OECD Test Guideline 404
Result : Corrosive after 3 minutes to 1 hour of exposure

CITRIC ACID:

Species : Rabbit
Method : OECD Test Guideline 404
Result : No skin irritation

SODIUM LAURYL SULFATE:

Species : Rabbit
Method : OECD Test Guideline 404
Result : Skin irritation
Remarks : Based on data from similar materials

Serious eye damage/eye irritation

Causes serious eye damage.

Product:

Remarks : May cause irreversible eye damage.

Components:

MINERAL OIL:

Species : Rabbit
Result : No eye irritation

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Method : OECD Test Guideline 405

POTASSIUM PERSULFATE:

Species : Rabbit
Result : Eye irritation
Method : OECD Test Guideline 405

SODIUM SILICATE:

Species : Rabbit
Result : Irreversible effects on the eye

AMMONIUM PERSULFATE:

Result : Eye irritation

SODIUM METASILICATE:

Result : Irreversible effects on the eye

CITRIC ACID:

Species : Rabbit
Result : Eye irritation
Method : OECD Test Guideline 405

SODIUM LAURYL SULFATE:

Species : Rabbit
Result : Irreversible effects on the eye
Method : OECD Test Guideline 405
Remarks : Based on data from similar materials

Respiratory or skin sensitization

Skin sensitization

May cause an allergic skin reaction.

Respiratory sensitization

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Product:

Remarks : May cause sensitization.

Components:

MINERAL OIL:

Routes of exposure : Skin contact
Species : Guinea pig
Method : OECD Test Guideline 406
Result : Does not cause skin sensitization.

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POTASSIUM PERSULFATE:

Routes of exposure : Skin contact
Species : Guinea pig
Method : OECD Test Guideline 406
Result : May cause sensitization by skin contact.

Routes of exposure : Inhalation
Species : Humans
Result : May cause sensitization by inhalation.

SODIUM SILICATE:

Routes of exposure : Skin contact
Species : Mouse
Method : OECD Test Guideline 429
Result : Does not cause skin sensitization.

AMMONIUM PERSULFATE:

Routes of exposure : Skin contact
Species : Guinea pig
Method : OECD Test Guideline 406
Result : May cause sensitization by skin contact.

Routes of exposure : Inhalation
Species : Humans
Result : May cause sensitization by inhalation.

SODIUM METASILICATE:

Routes of exposure : Skin contact
Species : Mouse
Method : OECD Test Guideline 429
Result : Does not cause skin sensitization.

SODIUM LAURYL SULFATE:

Routes of exposure : Skin contact
Species : Guinea pig
Method : Maximization Test
Result : Does not cause skin sensitization.

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Components:

MINERAL OIL:

Germ cell mutagenicity - Assessment : Weight of evidence does not support classification as a germ cell mutagen.

SODIUM SILICATE:

Germ cell mutagenicity - : Weight of evidence does not support classification as a germ

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Assessment cell mutagen.

AMMONIUM PERSULFATE:

Germ cell mutagenicity - Assessment : Weight of evidence does not support classification as a germ cell mutagen.

CITRIC ACID:

Germ cell mutagenicity - Assessment : Weight of evidence does not support classification as a germ cell mutagen.

SODIUM LAURYL SULFATE:

Germ cell mutagenicity - Assessment : Weight of evidence does not support classification as a germ cell mutagen.

Carcinogenicity

Based on available data, the classification criteria are not met.

IARC No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Based on available data, the classification criteria are not met.

Components:

MINERAL OIL:

Reproductive toxicity - Assessment : Weight of evidence does not support classification for reproductive toxicity

SODIUM SILICATE:

Reproductive toxicity - Assessment : Weight of evidence does not support classification for reproductive toxicity

AMMONIUM PERSULFATE:

Reproductive toxicity - Assessment : Weight of evidence does not support classification for reproductive toxicity

CITRIC ACID:

Reproductive toxicity - Assessment : Weight of evidence does not support classification for reproductive toxicity

SODIUM LAURYL SULFATE:

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Reproductive toxicity - : Weight of evidence does not support classification for
Assessment reproductive toxicity

STOT-single exposure

May cause respiratory irritation.
Corrosive to the respiratory tract.

Components:

POTASSIUM PERSULFATE:

Routes of exposure : Inhalation
Assessment : May cause respiratory irritation.

SODIUM SILICATE:

Routes of exposure : Inhalation
Target Organs : Respiratory organs
Assessment : May cause respiratory irritation.

AMMONIUM PERSULFATE:

Routes of exposure : Inhalation
Target Organs : Respiratory Tract
Assessment : May cause respiratory irritation.

SODIUM METASILICATE:

Routes of exposure : Inhalation
Assessment : May cause respiratory irritation.

CITRIC ACID:

Routes of exposure : Inhalation
Target Organs : Respiratory Tract
Assessment : May cause respiratory irritation.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Repeated dose toxicity

Components:

SODIUM LAURYL SULFATE:

Species : Rat, male and female
NOAEL : 488 mg/kg
Application Route : Oral
Exposure time : 13 Weeks
Method : OECD Test Guideline 408
Remarks : Based on data from similar materials

Aspiration toxicity

Based on available data, the classification criteria are not met.

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Components:

MINERAL OIL:

May be fatal if swallowed and enters airways.

Further information

Product:

Remarks : The reference to any animal testing for individual constituents mentioned in this document is based on public, third-party data.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

MINERAL OIL:

Toxicity to fish : LL50 (Leuciscus idus (Golden orfe)): > 10,000 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EL50 (Daphnia magna (Water flea)): > 100 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : NOELR (Pseudokirchneriella subcapitata (green algae)): >= 100 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

Toxicity to fish (Chronic toxicity) : NOEC (Oncorhynchus mykiss (rainbow trout)): > 1,000 mg/l
Exposure time: 28 d

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 10 mg/l
Exposure time: 21 d
Method: OECD Test Guideline 211
Remarks: No toxicity at the limit of solubility.

POTASSIUM PERSULFATE:

Toxicity to fish : LC50 (Fish): 107.6 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203
Remarks: No toxicity at the limit of solubility.

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 120 mg/l
Exposure time: 48 h
Remarks: No toxicity at the limit of solubility.

Toxicity to algae/aquatic : EC50 (Non-standard test species): 136 mg/l

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plants Exposure time: 72 h
Method: OECD Test Guideline 201

NOELR (Non-standard test species): 32 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

Toxicity to fish (Chronic toxicity) : Remarks: No toxicity at the limit of solubility.

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 20.8 mg/l
Exposure time: 21 d
Method: OECD Test Guideline 211
Remarks: No toxicity at the limit of solubility.

SODIUM SILICATE:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 260 - 310 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1,700 mg/l
Exposure time: 48 h
Method: Regulation (EC) No. 440/2008, Annex, C.2

Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): > 345.4 mg/l
Exposure time: 72 h

Toxicity to microorganisms : NOEC (Pseudomonas putida): 3,454 mg/l
Exposure time: 0.5 h
Method: DIN 38 412 Part 8

AMMONIUM PERSULFATE:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 76.3 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 120 mg/l
Exposure time: 48 h

Toxicity to algae/aquatic plants : EC50 (algae): 320 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 25.9 mg/l
Exposure time: 21 d
Method: OECD Test Guideline 211

Toxicity to microorganisms : EC10 (Pseudomonas putida): 36 mg/l
Exposure time: 18 h

SODIUM METASILICATE:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 210 mg/l

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Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1,700 mg/l
Exposure time: 48 h
Method: Regulation (EC) No. 440/2008, Annex, C.2

Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): > 345.4 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

CITRIC ACID:

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 440 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1,535 mg/l
Exposure time: 48 h

Toxicity to algae/aquatic plants : EC10 (Scenedesmus quadricauda (Green algae)): 425 mg/l
Exposure time: 192 h
Method: OECD Test Guideline 201

SODIUM LAURYL SULFATE:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 3.6 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 4.7 mg/l
Exposure time: 48 h

Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): > 20 mg/l
Exposure time: 72 h
Method: Regulation (EC) No. 440/2008, Annex, C.3

NOELR (Desmodesmus subspicatus (green algae)): 0.6 mg/l
Exposure time: 72 h
Method: Regulation (EC) No. 440/2008, Annex, C.3

Toxicity to fish (Chronic toxicity) : NOEC (Pimephales promelas (fathead minnow)): >= 1.357 mg/l
Exposure time: 42 d

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 0.14 mg/l
Exposure time: 21 d
Method: OECD Test Guideline 202
Remarks: Based on data from similar materials

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Version 1.0 Revision Date: 11/12/2025 SDS Number: 41-25-400000201945 Date of last issue: -
Date of first issue: 11/12/2025

Persistence and degradability

Components:

MINERAL OIL:

Biodegradability : Result: Inherently biodegradable.
Biodegradation: 31 %
Exposure time: 28 d
Method: OECD Test Guideline 301F

POTASSIUM PERSULFATE:

Biodegradability : Result: Readily biodegradable.

CITRIC ACID:

Biodegradability : Result: Readily biodegradable.
Biodegradation: 97 %
Exposure time: 30 d
Method: OECD Test Guideline 301D

SODIUM LAURYL SULFATE:

Biodegradability : Result: Readily biodegradable.
Biodegradation: 90 %
Exposure time: 28 d
Method: OECD Test Guideline 301D

Bioaccumulative potential

Components:

POTASSIUM PERSULFATE:

Partition coefficient: n-octanol/water : log Pow: -1

CITRIC ACID:

Bioaccumulation : Bioconcentration factor (BCF): 3.20

Partition coefficient: n-octanol/water : log Pow: -1.6

SODIUM LAURYL SULFATE:

Partition coefficient: n-octanol/water : log Pow: 0.78
Method: OECD Test Guideline 123

Mobility in soil

No data available

Other adverse effects

Product:

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Additional ecological information : The reference to any animal testing for individual constituents mentioned in this document is based on public, third-party data.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste Code : D001: Ignitability

Waste from residues : The product should not be allowed to enter drains, water courses or the soil.
Send to a licensed waste management company.

Contaminated packaging : Do not re-use empty containers.
Do not burn, or use a cutting torch on, the empty drum.
Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14. TRANSPORT INFORMATION

Domestic regulation

49 CFR

UN/ID/NA number : UN 3226

Proper shipping name : Self-reactive solid type D
(Potassium Persulfate, Ammonium Persulfate)

Class : 4.1

Packing group : Not assigned by regulation

Labels : FLAMMABLE SOLID

ERG Code : 149

Marine pollutant : no

Remarks : Materials may be offered as a limited quantity when in containers of 1 kilogram or less for US DOT Ground only
Offered under Competent Authority Approval CA2023090501
(U.S. Department of Transportation)

International Regulations

IATA-DGR

UN/ID No. : UN 3226

Proper shipping name : Self-reactive solid type D
(Potassium Persulfate, Ammonium Persulfate)

Class : 4.1

Packing group : Not assigned by regulation

Labels : Flammable Solid, Keep Away From Heat

Packing instruction (cargo aircraft) : 459

Packing instruction (passenger aircraft) : 459

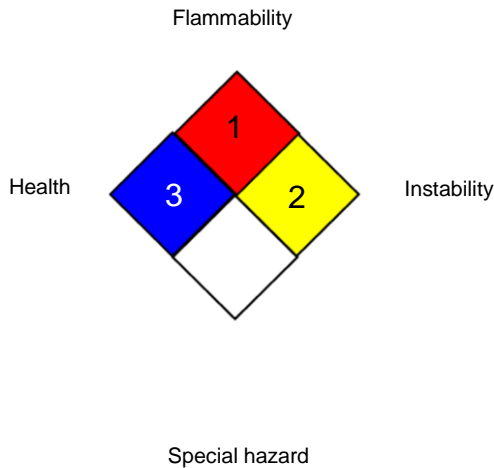
IMDG-Code

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NFPA 704:



Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)
NIOSH REL : USA. NIOSH Recommended Exposure Limits
OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
ACGIH / TWA : 8-hour, time-weighted average
NIOSH REL / TWA : Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
NIOSH REL / ST : STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday
OSHA Z-1 / TWA : 8-hour time weighted average

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level;

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NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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.

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