

SAFETY DATA SHEET

REDKEN BLONDE IDOL IQ 9+

Version 1.0 Revision Date: 10/10/2025 SDS Number: 41-23-400000198299 Date of last issue: -
Date of first issue: 10/10/2025

SECTION 1. IDENTIFICATION

Product name : REDKEN BLONDE IDOL IQ 9+
Formula Center Reference : 42050 RDK

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 F
Acute toxicity (Oral) : Category 4
Skin irritation : Category 2
Serious eye damage : Category 1
Respiratory sensitization : Category 1
Skin sensitization : Category 1
Specific target organ toxicity - repeated exposure (Inhalation) : Category 2 (Respiratory system)

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Other hazards

None known.

GHS label elements

Hazard pictograms



Signal Word

: Danger

Hazard Statements

: H242 Heating may cause a fire.
H302 Harmful if swallowed.
H315 Causes skin irritation.
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.
H373 May cause damage to organs (Respiratory system) through prolonged or repeated exposure if inhaled.

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.
P270 Do not eat, drink or smoke when using this product.
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/ face protection/ hearing protection.
P285 In case of inadequate ventilation wear respiratory protection.

Response:

P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth.
P302 + P352 IF ON SKIN: Wash with plenty of water.
P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.
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.

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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.

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)
POTASSIUM PERSULFATE	7727-21-1*	>= 30 - <= 60
SODIUM SILICATE	1344-09-8*	>= 10 - <= 30
AMMONIUM PERSULFATE	7727-54-0*	>= 7 - <= 13
MAGNESIUM CARBONATE	546-93-0*	>= 5 - <= 10
MINERAL OIL	8042-47-5*	>= 1 - <= 5
SODIUM LAURYL SULFATE	85586-07-8*	>= 0.1 - <= 1
DISODIUM EDTA	139-33-3*	>= 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 : If skin irritation persists, call a physician.
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.

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Clean mouth with water and drink afterwards plenty of water.
Induce vomiting immediately and call a physician.
If symptoms persist, call a physician.

Most important symptoms and effects, both acute and delayed : 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 if inhaled.
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.

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- Environmental precautions : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
- 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 contact with eyes.
Avoid formation of respirable particles.
Do not breathe vapors/dust.
Avoid exposure - obtain special instructions before use.
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 : Keep in a dry place.
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
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
MAGNESIUM CARBONATE	546-93-0	TWA (Respirable)	5 mg/m ³	NIOSH REL
		TWA (total)	10 mg/m ³	NIOSH REL
		TWA (total)	15 mg/m ³	OSHA Z-1

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		dust)		
		TWA (respirable fraction)	5 mg/m3	OSHA Z-1
		TWA (Total dust)	15 mg/m3	OSHA P0
		TWA (respirable dust fraction)	5 mg/m3	OSHA P0
MINERAL OIL	8042-47-5	TWA (Mist)	5 mg/m3	OSHA Z-1
		TWA (Inhalable particulate matter)	5 mg/m3	ACGIH
		TWA (Mist)	5 mg/m3	NIOSH REL
		ST (Mist)	10 mg/m3	NIOSH REL

Personal protective equipment

Respiratory protection : General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.

Hand protection

Remarks : Applicable for industrial settings only. Nitrile rubber

Eye protection : Applicable for industrial settings only.
Tightly fitting safety goggles

Skin and body protection : Dust impervious protective suit
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 : powder

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Color : blue

Odor : Unscented.

pH : Not applicable

Melting point/freezing point : Not applicable

Boiling point/boiling range : Not available

Flash point : does not flash
does not flash

Fire Point : Not applicable

Relative vapor density : No data available

Relative density : 0.684 - 0.696 (68 °F / 20 °C)

Solubility(ies)
Water solubility : soluble

Partition coefficient: n-octanol/water : Not applicable

Self-Accelerating decomposition temperature (SADT) : 167 °F / 75 °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 : Measure needed

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.

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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

Harmful if swallowed.

Product:

Acute oral toxicity : Acute toxicity estimate: 1,609 mg/kg
Method: Calculation method

Components:

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:

Acute oral toxicity : LD50 (Rat, female): 700 mg/kg

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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

MAGNESIUM CARBONATE:

Acute oral toxicity : LD50 (Rat, female): > 2,000 mg/kg
Method: OECD Test Guideline 420
Assessment: The substance or mixture has no acute oral toxicity

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

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

DISODIUM EDTA:

Acute oral toxicity : LD50 (Rat, male and female): 2,800 mg/kg
Method: OECD Test Guideline 401
Assessment: The substance or mixture has no acute oral toxicity

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Acute inhalation toxicity : (Rat, male): 0.03 mg/l
Exposure time: 6 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 412

Skin corrosion/irritation

Causes skin irritation.

Components:

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

MAGNESIUM CARBONATE:

Species : human skin
Method : OECD Test Guideline 431
Result : No skin irritation

MINERAL OIL:

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

DISODIUM EDTA:

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

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Serious eye damage/eye irritation

Causes serious eye damage.

Product:

Remarks : May cause irreversible eye damage.

Components:

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

MAGNESIUM CARBONATE:

Species : Rabbit
Result : No eye irritation
Method : OECD Test Guideline 405

MINERAL OIL:

Species : Rabbit
Result : No 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

DISODIUM EDTA:

Species : Rabbit
Result : No eye irritation
Method : OECD Test Guideline 405

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.

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Product:

Remarks : May cause sensitization.

Components:

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.

MINERAL OIL:

Routes of exposure : Skin contact
Species : Guinea pig
Method : OECD Test Guideline 406
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.

DISODIUM EDTA:

Routes of exposure : Skin contact
Species : Guinea pig
Method : OECD Test Guideline 406

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Result : Does not cause skin sensitization.

Germ cell mutagenicity

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

Components:

SODIUM SILICATE:

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

AMMONIUM PERSULFATE:

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

MAGNESIUM CARBONATE:

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

MINERAL OIL:

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.

DISODIUM EDTA:

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.

Components:

MAGNESIUM CARBONATE:

Carcinogenicity - Assessment : Weight of evidence does not support classification as a carcinogen

DISODIUM EDTA:

Carcinogenicity - Assessment : Weight of evidence does not support classification as a carcinogen

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

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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:

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

MAGNESIUM CARBONATE:

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

MINERAL OIL:

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

SODIUM LAURYL SULFATE:

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

DISODIUM EDTA:

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

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AMMONIUM PERSULFATE:

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

STOT-repeated exposure

May cause damage to organs (Respiratory system) through prolonged or repeated exposure if inhaled.

Components:

DISODIUM EDTA:

Routes of exposure : Inhalation
Target Organs : Respiratory system
Assessment : The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

Repeated dose toxicity

Components:

MAGNESIUM CARBONATE:

Species : Rat, male and female
NOAEL : 414 mg/kg
Application Route : Oral
Exposure time : 28 d
Method : OECD Test Guideline 422
Remarks : No adverse effect has been observed in chronic toxicity tests.

Species : Rat, male and female
NOAEL : 124 mg/kg
Application Route : Oral
Exposure time : 90 d
Method : OECD Test Guideline 408
Remarks : No adverse effect has been observed in chronic toxicity tests.

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

DISODIUM EDTA:

Species : Rat
NOAEL : ≥ 500 mg/kg
Application Route : Oral
Exposure time : 13 Weeks

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Species : Rat, male
LOAEL : 0.03 mg/l
Application Route : inhalation (dust/mist/fume)
Exposure time : 5 d
Method : OECD Test Guideline 412

Aspiration toxicity

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

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:

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 plants : EC50 (Non-standard test species): 136 mg/l
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) : NOEC (Daphnia magna (Water flea)): 20.8 mg/l
Exposure time: 21 d

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

Toxicity to algae/aquatic : EC50 (Desmodesmus subspicatus (green algae)): > 345.4
plants 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 : EC50 (Daphnia magna (Water flea)): 120 mg/l
aquatic invertebrates Exposure time: 48 h

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

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

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

MAGNESIUM CARBONATE:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 1,875 mg/l
Exposure time: 96 h
Remarks: Based on data from similar materials

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 1,127 mg/l
aquatic invertebrates Exposure time: 48 h
Remarks: Based on data from similar materials

Toxicity to algae/aquatic : EC50 (algae): > 65 mg/l
plants Exposure time: 72 h
Method: OECD Test Guideline 201
Remarks: Based on data from similar materials

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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.

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

DISODIUM EDTA:

- Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 116 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203

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Remarks: No toxicity at the limit of solubility.

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 114 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202
Remarks: No toxicity at the limit of solubility.

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

NOELR (Pseudokirchneriella subcapitata (green algae)): 48.4 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

Toxicity to fish (Chronic toxicity) : NOEC (Danio rerio (zebra fish)): >= 35.1 mg/l
Exposure time: 35 d
Method: OECD Test Guideline 210
Remarks: No toxicity at the limit of solubility.

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 25 mg/l
Exposure time: 21 d
Method: OECD Test Guideline 211
Remarks: No toxicity at the limit of solubility.

Toxicity to microorganisms : NOEC (activated sludge): >= 640 mg/l
Exposure time: 3 h
Method: OECD Test Guideline 209

Persistence and degradability

Components:

POTASSIUM PERSULFATE:

Biodegradability : Result: Readily biodegradable.

MAGNESIUM CARBONATE:

Biodegradability : Result: Readily biodegradable.

MINERAL OIL:

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

SODIUM LAURYL SULFATE:

Biodegradability : Result: Readily biodegradable.
Biodegradation: 90 %

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Exposure time: 28 d
Method: OECD Test Guideline 301D

DISODIUM EDTA:

Biodegradability : Result: Not inherently biodegradable.
Biodegradation: 66 %
Exposure time: 28 d
Method: OECD Test Guideline 301D

Bioaccumulative potential

Components:

POTASSIUM PERSULFATE:

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

SODIUM LAURYL SULFATE:

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

DISODIUM EDTA:

Bioaccumulation : Bioconcentration factor (BCF): 1.8
Method: OECD Test Guideline 305

Partition coefficient: n-octanol/water : log Pow: -4.3
pH: 4.5

Mobility in soil

No data available

Other adverse effects

Product:

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.

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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

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UN/ID/NA number : UN 3230
Proper shipping name : Self-reactive solid type F
(Potassium Persulfate, Ammonium Persulfate)
Class : 4.1
Packing group : Not assigned by regulation
Labels : FLAMMABLE SOLID
ERG Code : 149
Marine pollutant : no
Remarks : Offered under Competent Authority Approval CA2024010502
(U.S. Department of Transportation)
Materials may be offered as a limited quantity when in containers of 1 kilogram or less, for US ground transportation only.

International Regulations

IATA-DGR

UN/ID No. : UN 3230
Proper shipping name : Self-reactive solid type F
(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

UN number : UN 3230
Proper shipping name : SELF-REACTIVE SOLID TYPE F
(POTASSIUM PERSULFATE, AMMONIUM PERSULFATE)
Class : 4.1
Packing group : Not assigned by regulation
Labels : 4.1
EmS Code : F-J, S-G
Marine pollutant : no

Transport in bulk according to IMO instruments

Not applicable for product as supplied.

Special precautions for user

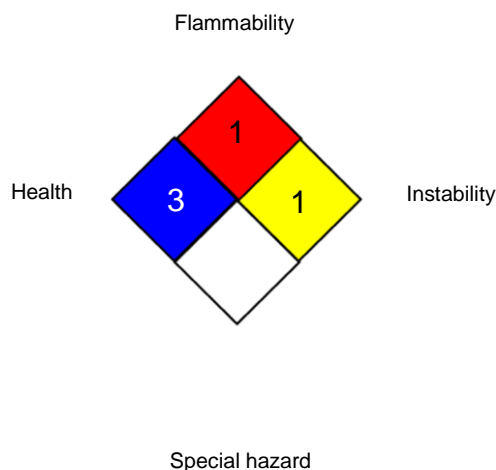
Remarks : Materials may be offered as a limited quantity when in containers of 500 grams or less, except for IATA.

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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 P0 : USA. Table Z-1-A Limits for Air Contaminants (1989 vacated values)
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 P0 / TWA : 8-hour time weighted average
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

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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; 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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