

SAFETY DATA SHEET

REDKEN BLONDE IDOL UP TO 7 BLEACHING POWDER

Version 1.0 Revision Date: 2025/10/10 SDS Number: 42-23-400000198311 Date of last issue: -
Date of first issue: 2025/10/10

SECTION 1. IDENTIFICATION

Product identifier : REDKEN BLONDE IDOL UP TO 7 BLEACHING POWDER

Formula Center Reference : 33338 RDK6

Manufacturer or supplier's details

Company : Procosa SP - Procosa Produtos de beleza LTDA
Address : Rua Manoel Monteiro de Araújo
1350 - Parque Sao Domingos
São Paulo - SP 02675-031
Brazil

Telephone : +55 21 4505-0000

E-mail address : NACORPEUROPESDSREQUEST@LOREAL.COM

Emergency telephone

INFOTRAC : +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 ABNT NBR 14725 Standard

Self-heating substances and mixtures : Category 2

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 - single exposure : Category 3 (Respiratory system)

Short-term (acute) aquatic hazard : Category 3

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GHS label elements in accordance with ABNT NBR 14725 Standard

Hazard pictograms :



Signal Word :

Danger

Hazard Statements :

H252 Self-heating in large quantities; may catch 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.
H402 Harmful to aquatic life.

Precautionary Statements :

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

Prevention:

P261 Avoid breathing 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 should not be allowed out of the workplace.
P273 Avoid release to the environment.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.
P284 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.
P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER/ doctor.
P362 + P364 Take off contaminated clothing and wash it before reuse.

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Storage:

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

P405 Store locked up.

P407 Maintain air gap between stacks or pallets.

P410 Protect from sunlight.

P413 Store bulk masses greater than 227 kg/ 500 lb at temperatures not exceeding 60°C/ 140°F

P420 Store separately.

Disposal:

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

Other hazards which do not result in classification

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components

Chemical name	CAS-No.	Classification	Concentration (% w/w)
POTASSIUM PERSULFATE	7727-21-1	Ox. Sol., 3 Acute Tox. (Oral), 4 Skin Irrit., 2 Eye Irrit., 2A Resp. Sens., 1 Skin Sens., 1 STOT SE, (Respiratory system) , 3	>= 30 -< 50
SODIUM SILICATE	1344-09-8	Acute Tox. (Oral), 5 Skin Irrit., 2 Eye Dam., 1 STOT SE, (Respiratory system) , 3	>= 20 -< 30
SODIUM PERSULFATE	7775-27-1	Ox. Sol., 3 Acute Tox. (Oral), 4 Skin Irrit., 2 Eye Irrit., 2A Resp. Sens., 1 Skin Sens., 1 STOT SE, (Respiratory system) , 3	>= 10 -< 20
ZEA MAYS (CORN) STARCH	9005-25-8		>= 5 -< 10
AMMONIUM SULFATE	7783-20-2	Acute Tox. (Oral), 5 Aquatic Acute, 3	>= 5 -< 10

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SODIUM LAURYL SULFATE	68955-19-1	Skin Irrit., 2 Eye Dam., 1 Aquatic Acute, 2 Aquatic Chronic, 3	>= 3 -< 5
HYDROGENATED POLYDECENE	68037-01-4	Acute Tox. (Dermal), 5 Asp. Tox., 1	>= 1 -< 5
SODIUM STEARATE	822-16-2		>= 1 -< 5
SODIUM METASILICATE	6834-92-0	Met. Corr., 1 Skin Corr., 1B Eye Dam., 1 STOT SE, (Respiratory system), 3	>= 1 -< 3
MICA	12001-26-2		>= 1 -< 5

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.
- 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.
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.
- Notes to physician : Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

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- 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.
- Specific extinguishing methods : 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.
- 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.
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Keep away from combustible material.

- 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.
- Hygiene measures : When using do not eat or drink.
When using do not smoke.
Wash hands before breaks and at the end of workday.
- Conditions for safe storage : Store in cool place.
Keep in a well-ventilated 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
SODIUM PERSULFATE	7775-27-1	TWA	0,1 mg/m ³ (Persulphate)	ACGIH
ZEA MAYS (CORN) STARCH	9005-25-8	TWA	10 mg/m ³	ACGIH
SODIUM STEARATE	822-16-2	TWA (Inhalable particulate matter)	10 mg/m ³	ACGIH
		TWA (Respirable particulate matter)	3 mg/m ³	ACGIH
MICA	12001-26-2	TWA (Respirable particulate matter)	0,1 mg/m ³	ACGIH

Personal protective equipment

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Respiratory protection : Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.

Filter type : Particulates type

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.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state : solid

Form : powder

Color : No data available

Odor : Unscented.

pH : Not applicable

Melting point/freezing point : Not applicable

Boiling point/boiling range : Not available

Flash point : does not flash

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 : 0,664 - 0,676 (20 °C)

Partition coefficient: n-octanol/water : Not applicable

Autoignition temperature : No data available

Viscosity
Viscosity, kinematic : Not applicable

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

Self-heating substances : Self-heating in large quantities; may catch fire.

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

Harmful if swallowed.

Product:

Acute oral toxicity : Acute toxicity estimate: 1.899 mg/kg
Method: Calculation method

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Acute dermal toxicity : Acute toxicity estimate: > 5.000 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

SODIUM PERSULFATE:

Acute oral toxicity : LD50 (Rat, female): 920 mg/kg
Method: OECD Test Guideline 401

Acute inhalation toxicity : (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

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AMMONIUM SULFATE:

- Acute oral toxicity : LD50 (Rat, male and female): 4.250 mg/kg
Method: OECD Test Guideline 401
- Acute inhalation toxicity : LC50 (Non-standard test species, male): 1 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
Method: OECD Test Guideline 434
Assessment: The substance or mixture has no acute dermal toxicity

SODIUM LAURYL SULFATE:

- Acute oral toxicity : LD50 (Rat, male and female): 4.010 mg/kg
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
Remarks: Based on data from similar materials

HYDROGENATED POLYDECENE:

- Acute oral toxicity : LD50 (Rat, male and female): > 5.000 mg/kg
Assessment: The substance or mixture has no acute oral toxicity
Remarks: Based on data from similar materials
- Acute inhalation toxicity : LC50 (Rat, male and female): 5,00 mg/l
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
Assessment: The substance or mixture has no acute inhalation toxicity
Remarks: Based on data from similar materials
- Acute dermal toxicity : LD50 (Rabbit, male and female): > 3.000 mg/kg
Method: OECD Test Guideline 402
Remarks: Based on data from similar materials

SODIUM METASILICATE:

- Acute oral toxicity : LD50 (Rat, male and female): 1.349 mg/kg
Assessment: The substance or mixture has no acute oral toxicity

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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

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

SODIUM PERSULFATE:

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

AMMONIUM SULFATE:

Species : Rabbit
Result : No skin irritation

SODIUM LAURYL SULFATE:

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

HYDROGENATED POLYDECENE:

Species : Rabbit
Method : OECD Test Guideline 404
Result : No skin irritation
Remarks : Based on data from similar materials

SODIUM METASILICATE:

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

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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

SODIUM PERSULFATE:

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

AMMONIUM SULFATE:

Species : Rabbit
Result : No eye irritation

SODIUM LAURYL SULFATE:

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

HYDROGENATED POLYDECENE:

Species : Rabbit
Result : No eye irritation
Method : OECD Test Guideline 405
Remarks : Based on data from similar materials

SODIUM METASILICATE:

Result : Irreversible effects on the eye

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.

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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.

SODIUM 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.

AMMONIUM SULFATE:

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

SODIUM LAURYL SULFATE:

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

HYDROGENATED POLYDECENE:

Routes of exposure : Skin contact
Species : Guinea pig
Method : Maximization Test
Result : Does not cause skin sensitization.
Remarks : Based on data from similar materials

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SODIUM METASILICATE:

Routes of exposure : Skin contact
Species : Mouse
Method : OECD Test Guideline 429
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 SULFATE:

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

HYDROGENATED POLYDECENE:

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:

AMMONIUM SULFATE:

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

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 SULFATE:

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

HYDROGENATED POLYDECENE:

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

STOT-single exposure

May cause respiratory irritation.

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.

SODIUM PERSULFATE:

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

SODIUM METASILICATE:

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

STOT-repeated exposure

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

Repeated dose toxicity

Components:

AMMONIUM SULFATE:

Species : Rat, male
NOAEL : 256 mg/kg
Application Route : Oral
Exposure time : 2 yr

Species : Rat, male
NOAEL : 0,3 mg/l
Application Route : inhalation (dust/mist/fume)
Exposure time : 14 d

HYDROGENATED POLYDECENE:

Species : Rat
NOAEL : > 1000 mg/kg
Application Route : Oral

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Exposure time : 90 d
Method : OECD Test Guideline 408
Remarks : No adverse effect has been observed in chronic toxicity tests.

Aspiration toxicity

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

Components:

HYDROGENATED POLYDECENE:

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 toxicity) : NOEC (Daphnia magna (Water flea)): 20,8 mg/l
Exposure time: 21 d
Method: OECD Test Guideline 211

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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

SODIUM PERSULFATE:

- Toxicity to fish : LC50 (Fish): 203,3 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 (algae): 136 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
Remarks: No toxicity at the limit of solubility.
- NOELR (algae): 32 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
Remarks: No toxicity at the limit of solubility.
- 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.

AMMONIUM SULFATE:

- Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 53 mg/l

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Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): 169 mg/l
Exposure time: 48 h

Toxicity to algae/aquatic plants : EC50 (*Chlorella vulgaris* (Fresh water algae)): 1.605 mg/l
Exposure time: 120 h

Toxicity to fish (Chronic toxicity) : EC10 (*Lepomis macrochirus* (Bluegill sunfish)): 5,29 mg/l
Exposure time: 30 d

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : EC10 (*Hyalella azteca* (Amphipod)): 3,12 mg/l
Exposure time: 70 d

Toxicity to microorganisms : IC50 (activated sludge): 1.618 mg/l
Exposure time: 0,5 h
Method: OECD Test Guideline 209
Remarks: Based on data from similar materials

SODIUM LAURYL SULFATE:

Toxicity to fish : LC50 (*Danio rerio* (zebra fish)): 1,3 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203
Remarks: Not classified due to data which are conclusive although insufficient for classification.

Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): 2,8 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202
Remarks: Not classified due to data which are conclusive although insufficient for classification.

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

EC10: 7,6 mg/l
Exposure time: 72 h

Toxicity to fish (Chronic toxicity) : NOEC (*Pimephales promelas* (fathead minnow)): 1,357 mg/l
Exposure time: 42 d
Method: OECD Test Guideline 210
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (*Daphnia magna* (Water flea)): 0,42 mg/l
Exposure time: 21 d
Remarks: The value is given based on a SAR/AAR approach using OECD Toolbox, DEREK, VEGA QSAR models (CAESAR models), etc.

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HYDROGENATED POLYDECENE:

Toxicity to fish : LL50 (Fish): > 1.000 mg/l
Exposure time: 96 h
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates : EL50 (Daphnia magna (Water flea)): > 1.000 mg/l
Exposure time: 48 h
Remarks: Based on data from similar materials

Toxicity to algae/aquatic plants : NOELR (algae): > 1.000 mg/l
Exposure time: 72 h
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOELR (Daphnia magna (Water flea)): 125 mg/l
Exposure time: 21 d
Method: OECD Test Guideline 211
Remarks: Based on data from similar materials

SODIUM METASILICATE:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 210 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
Method: OECD Test Guideline 201

Persistence and degradability

Components:

POTASSIUM PERSULFATE:

Biodegradability : Result: Readily biodegradable.

SODIUM PERSULFATE:

Biodegradability : Result: Readily biodegradable.

AMMONIUM SULFATE:

Biodegradability : Result: Not readily biodegradable.

SODIUM LAURYL SULFATE:

Biodegradability : Result: Readily biodegradable.

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Biodegradation: 93 %
Exposure time: 28 d
Method: Regulation (EC) No. 440/2008, Annex, C.4-C

HYDROGENATED POLYDECENE:

Biodegradability : Result: Readily biodegradable.
Remarks: Based on data from similar materials

Bioaccumulative potential

Components:

POTASSIUM PERSULFATE:

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

SODIUM PERSULFATE:

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

AMMONIUM SULFATE:

Partition coefficient: n-octanol/water : log Pow: -5,1

HYDROGENATED POLYDECENE:

Partition coefficient: n-octanol/water : log Pow: > 6,5
Method: OECD Test Guideline 117

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

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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

ANTT

UN number : UN 3088
Proper shipping name : SELF-HEATING SOLID, ORGANIC, N.O.S.
(POTASSIUM PERSULFATE, SODIUM PERSULFATE)
Class : 4.2
Packing group : III
Labels : 4.2
Hazard Identification Number : 40

International Regulations

IATA-DGR

UN/ID No. : UN 3088
Proper shipping name : Self-heating solid, organic, n.o.s.
(Potassium Persulfate, Sodium persulfate)
Class : 4.2
Packing group : III
Labels : Spontaneously Combustible
Packing instruction (cargo aircraft) : 471
Packing instruction (passenger aircraft) : 469

IMDG-Code

UN number : UN 3088
Proper shipping name : SELF-HEATING SOLID, ORGANIC, N.O.S.
(POTASSIUM PERSULFATE, SODIUM PERSULFATE)
Class : 4.2
Packing group : III
Labels : 4.2
EmS Code : F-A, S-J
Marine pollutant : no

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Special precautions for user

Remarks : Exempt from class 4.2, if transported in packagings smaller or equal to 450 liters

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SECTION 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

National List of Carcinogenic Agents for Humans - (LINACH) : Not applicable

Brazil. List of chemicals controlled by the Federal Police : Not applicable

SECTION 16. OTHER INFORMATION

Revision Date : 2025/10/10

Date format : yyyy/mm/dd

Further information

Other information : 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.

Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)

ACGIH / TWA : 8-hour, time-weighted average

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; 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; 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; KECl - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median

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Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; 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; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; 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; WHMIS - Workplace Hazardous Materials Information System

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