

1. Product and company identification

Product identifier

Trade name: SSR Tablet

Relevant identified uses of the substance or mixture and uses advised against

General use: Cleaning agent

Details of the supplier of the safety data sheet

Company name: IBEDA-CHEMIE Klaus P. Christ GmbH

Street/POB-No.: Am Eichelgärtchen 32

Postal Code, city: 56283 Halsenbach

Germany

E-mail: info@ibeda-chemie.com

Telephone: +49 (0)6747-9501-0

Telefax: +49 (0)6747-9501-11

Dept. responsible for information:

Herr Dohmann, Telephone: +49 (0)6747-9501-16

Emergency phone number

Beratungsstelle bei Vergiftung, Telephone: +49 (0)6131-19240

Transport:

CONSULTANK Lutz Harder GmbH (Contract QUALI003)

Telephone: +49 (178) 4337434 (from USA: 01149 178 4337434)

2. Hazards identification

Emergency overview

Appearance: Form: solid, Tablets

Odor: no data available

Classification: Acute Toxicity - oral - Category 4; Skin Corrosion - Category 1B; Sensitization - skin - Category 1; Specific Target Organ Toxicity (Single Exposure) - Category 3; Aquatic toxicity - chronic - Category 3;

Hazard symbols:



Signal word:

Danger

Hazard statements:

Harmful if swallowed.

Causes severe skin burns and eye damage.

May cause an allergic skin reaction.

May cause respiratory irritation.

Harmful to aquatic life with long lasting effects.

Precautionary statements:

Keep out of reach of children.
 Wear protective gloves/protective clothing/eye protection.
 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
 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.

Regulatory status

This material is considered hazardous by the U.S. OSHA Hazard Communication Standard (29 CFR 1910.1200) and SIMDUT in Canada.

Hazards not otherwise classified

see section 11: Toxicological information

3. Composition / Information on ingredients

Chemical characterization: tablet of the substances listed below with non-hazardous additions

Hazardous ingredients:

CAS No.	Designation	Content	Classification
CAS 77-92-9	Citric acid, anhydrous	< 40 %	Eye Irritation - Category 2A.
CAS 110-16-7	Maleic acid	25 - 35 %	Acute Toxicity - oral - Category 4. Skin Irritation - Category 2. Eye Irritation - Category 2A. Sensitization - skin - Category 1. Specific Target Organ Toxicity (Single Exposure) - Category 3.
CAS 5329-14-6	Sulphamidic acid	10 - 20 %	Skin Irritation - Category 2. Eye Irritation - Category 2A. Aquatic toxicity - chronic - Category 3.
CAS 70693-62-8	Potassium peroxomonosulfate	5 - 15 %	Corrosive to Metals - Category 1. Acute Toxicity - oral - Category 4. Skin Corrosion - Category 1B. Aquatic toxicity - chronic - Category 3.

4. First aid measures

General information: Move victim to fresh air; if necessary, provide artificial respiration or oxygen.
 In case of inhalation: Provide fresh air. In case of respiratory difficulties seek medical attention.
 Following skin contact: After contact with skin, wash immediately with soap and plenty of water. Change contaminated clothing. In case of skin irritation, consult a physician.
 After eye contact: Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Remove contact lenses. Subsequently consult an ophthalmologist.
 After swallowing: Never give anything by mouth to an unconscious person. Rinse mouth and drink large quantities of water. Do not induce vomiting. Immediately get medical attention.

Most important symptoms/effects, acute and delayed

Causes severe skin burns and eye damage. May cause an allergic skin reaction.

Information to physician

Treat symptomatically.

5. Fire fighting measures

Flash point/flash point range:

no data available

Auto-ignition temperature: no data available

Suitable extinguishing media:

Water fog, alcohol resistant foam, dry chemical, carbon dioxide.

Extinguishing media which must not be used for safety reasons:

High power water jet

Specific hazards arising from the chemical

In case of fire may be liberated: Nitrogen oxides (NO_x), sulphur oxides, Carbon monoxide and carbon dioxide.

Protective equipment and precautions for firefighters:

Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information:

Cool endangered containers with water spray and, if possible, remove from danger zone.

Use a water fog to control vapors.

Do not breathe fumes. Do not allow fire water to penetrate into surface or ground water.

6. Accidental release measures

Personal precautions:

Avoid contact with skin and eyes. Avoid generation of dust. Do not breathe dust. Wear personal protection equipment.

In case of dust formation: Provide adequate ventilation.

Environmental precautions:

Do not allow to enter into ground-water, surface water or drains.

Methods for clean-up:

Avoid generation of dust.

Collect dry and place in appropriate containers for disposal. Subsequent cleaning.

To clean the floor and all object contaminated by this material, use water.

7. Handling and storage

Handling

Advices on safe handling: Avoid contact with skin and eyes. Avoid generation of dust. Do not breathe dust. Wear personal protection equipment. When using do not eat, drink or smoke.

In case of dust formation: Provide adequate ventilation, and local exhaust as needed.

Precautions against fire and explosion:

Usual measures for fire prevention.

Storage

Requirements for storerooms and containers:

Keep container tightly closed and dry. Store at room temperature.

Hints on joint storage:

Keep away from food, drink and animal feedingstuffs.

8. Exposure controls / personal protection

Exposure guidelines

Occupational exposure limit values:

Type	Limit value
USA: ACGIH: TWA	10 mg/m ³ Dust limit value, indicativ; inhalable fraction
USA: ACGIH: TWA	3 mg/m ³ Dust limit value, indicativ; respirable fraction
USA: OSHA: TWA	15 mg/m ³ Dust limit value inhalable fraction
USA: OSHA: TWA	5 mg/m ³ Dust limit value respirable fraction

Additional information: OSHA-TWA: 15 mg/m³ (total dust)
OSHA-TWA: 5 mg/m³ (respirable fraction)

Engineering controls

Provide fresh air. Dust should be exhausted directly at the point of origin.
See also information in chapter 7, section storage.

Personal protection equipment (PPE)

Eye/face protection: Tightly sealed goggles according to OSHA Standard - 29 CFR: 1910.133 or ANSI Z87.1-2010.

Skin protection: Recommended: Wear suitable protective clothing.
Protective gloves according to OSHA Standard - 29 CFR: 1910.138.
Glove material: Nitrile rubber-Layer thickness: 0.11 mm.
Breakthrough time: >480 min.
Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Respiratory protection: In case of dust formation: Half mask with particle filter N100 according to OSHA Standard - 29 CFR: 1910.134 or ANSI Z88.2.

General hygiene considerations:
Avoid contact with skin and eyes. Change contaminated clothing. Provide a conveniently located eye rinse station. When using do not eat or drink. Wash hands before breaks and after work.

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance: Form: solid, Tablets

Odor: no data available

Odor threshold: no data available

pH value: no data available

Melting point/freezing point: no data available

Initial boiling point and boiling range: no data available

Flash point/flash point range: no data available

Evaporation rate: no data available

Flammability: no data available

Explosion limits: no data available

Vapor pressure: no data available

Vapor density: no data available

Density: no data available
Solubility: no data available
Partition coefficient: n-octanol/water: no data available
Auto-ignition temperature: no data available
Thermal decomposition: no data available
Additional information: no data available

10. Stability and reactivity

Reactivity: Refer to 10.3
Chemical stability: Stable under recommended storage conditions.
Possibility of hazardous reactions
No dangerous reactions with proper and specified storage and handling.
Conditions to avoid: humidity. Protect from excessive heat. Avoid generation of dust.
Incompatible materials: no data available
Hazardous decomposition products:
In case of fire may be liberated: Nitrogen oxides (NO_x), sulphur oxides, Carbon monoxide and carbon dioxide.
Thermal decomposition: no data available

11. Toxicological information

Toxicological tests

Toxicological effects: Acute toxicity (oral): Acute Toxicity - oral - Category 4 = Harmful if swallowed.
The product has not been tested. The statement is derived from the properties of the single components.
ATEmix (calculated): 300 <ATE< 2000.

Acute toxicity (dermal): Lack of data.

Acute toxicity (inhalative): Lack of data.

Skin corrosion/irritation, eye damage/irritation: Skin Corrosion - Category 1B = Causes severe skin burns and eye damage.
The product has not been tested. The statement is derived from the properties of the single components.

Sensitisation to the respiratory tract: Lack of data.

Skin sensitisation: Sensitization - skin - Category 1 = May cause an allergic skin reaction.
The product has not been tested. The statement is derived from the properties of the single components.

Germ cell mutagenicity/Genotoxicity: Lack of data.

Carcinogenicity: Lack of data.

Reproductive toxicity: Lack of data.

Effects on or via lactation: Lack of data.

Specific target organ toxicity (single exposure): Specific Target Organ Toxicity (Single Exposure) - Category 3 = May cause respiratory irritation.
The product has not been tested. The statement is derived from the properties of the single components.

Specific target organ toxicity (repeated exposure): Lack of data.

Aspiration hazard: Lack of data.

Symptoms

In case of inhalation: Inhalation of dust may cause irritation of the respiratory system.
Other symptoms: cough, shortage of breath. Pulmonary edema is possible.
Symptoms may occur with delay.

In case of ingestion:
Irritations of mucous membranes in the mouth, pharynx, oesophagus and gastrointestinal tract.
Other symptoms: Abdominal pain, vomiting, burns.

After eye contact: Dust contact with the eyes can lead to mechanical irritation.

12. Ecological information

Ecotoxicity

Aquatic toxicity: Harmful to aquatic life with long lasting effects.
The product has not been tested. The statement is derived from the properties of the single components.

Mobility in soil

no data available

Persistence and degradability

Further details: no data available

Additional ecological information

General information: Do not allow to enter into ground-water, surface water or drains.

13. Disposal considerations

Product

Recommendation: Dispose of waste according to applicable legislation.

Contaminated packaging

Recommendation: Dispose of waste according to applicable legislation.
Non-contaminated packages may be recycled.

14. Transport information

USA: Department of Transportation (DOT)

Identification numbers: UN1759
Proper shipping name: UN 1759, corrosive solids, n.o.s.
(Potassium peroxomonosulfate)
DOT hazard class or division: 8
PG: III
Label codes: 8
Symbols: G
Special provisions: 128, IB8, IP3, T1, TP33
Packaging - Exceptions: 154
Packaging - Non-bulk: 213
Packaging - Bulk: 240
Quantity limitations - Passenger aircraft / rail:
25 kg
Quantity limitations - Cargo only: 100 kg
Vessel stowage - Location: A



Sea transport (IMDG)

UN number: UN 1759
Proper shipping name: UN 1759, CORROSIVE SOLID, N.O.S. (Potassium peroxomonosulfate)
IMDG: Class 8, Subrisk -
Packing Group: III
EmS: F-A, S-B
Special provisions: 223, 274
Limited quantities: 5 kg
EQ: E1
Contaminated packaging - Instructions: P002, LP02
Contaminated packaging - Provisions: -
IBC - Instructions: IBC08
IBC - Provisions: B3
Tank instructions - IMO: -
Tank instructions - UN: T1
Tank instructions - Provisions: TP33
Stowage and handling: Category A.
Properties and observations: Causes burns to skin, eyes and mucous membranes.
Marine pollutant: No

Air transport (IATA)

UN/ID number: UN 1759
Proper shipping name: UN 1759, CORROSIVE SOLID, N.O.S. (Potassium peroxomonosulfate)
ICAO/IATA: Class 8
PG: III
Hazard: Corrosive
EQ: E1
Passenger Ltd.Qty.: Pack.Instr. Y845 - Max. Net Qty/Pkg. 5 kg
Passenger: Pack.Instr. 860 - Max. Net Qty/Pkg. 25 kg
Cargo: Pack.Instr. 864 - Max. Net Qty/Pkg. 100 kg
Special Provisioning: A3 A803
ERG: 8L

15. Regulatory information**U.S. Federal Regulations**

Citric acid, anhydrous:	TSCA Inventory: listed TSCA HPVC: not listed
Maleic acid:	TSCA Inventory: listed TSCA HPVC: not listed Clean Water Act: Hazardous Substances: RQ 5000 lbs. Other Environmental Laws: CERCLA: RQ 5000 lbs.
Sulphamidic acid:	TSCA Inventory: listed TSCA HPVC: not listed
Potassium peroxomonosulfate:	TSCA Inventory: listed TSCA HPVC: not listed

U.S. State Regulations

Sulfamic acid is on the New Jersey list.

California Proposition 65 Status: This product does not contain chemicals currently on the California list of known carcinogens and/or reproductive toxins.

National regulations - Great Britain

Hazchem-Code: 2X

16. Other information

Text for labeling: Contains < 40 % Citric acid, anhydrous, 25 - 35 % Maleic acid, 10 - 20 % Sulphamidic acid, 5 - 15 % Potassium peroxomonosulfate. Safety data sheet available on request.

Hazard rating systems:



NFPA Hazard Rating:

Health: 2 (Moderate)

Fire: 0 (Minimal)

Reactivity: 0 (Minimal)

HMIS Version III Rating:

Health: 2 (Moderate)

Flammability: 0 (Minimal)

Physical Hazard: 0 (Minimal)

Personal Protection: X = Consult your supervisor

HEALTH	2
FLAMMABILITY	0
PHYSICAL HAZARD	0
	X

Reason of change: General revision (Regulation (EU) No 2015/830)

Date of first version: 11/10/2014

Department issuing data sheet

Contact person: see section 1: Dept. responsible for information

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.