SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

SAT-SAP

Further trade names
INCI: SODIUM ASCORBYL PHOSPHATE
CAS No: 66170-10-3
EC No: 425-180-1

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

Use of the substance/mixture
Manufacture of cosmetics.

Uses advised against
Any non-intended use.

1.3. Details of the supplier of the safety data sheet

Company name: Satcotek GmbH
Street: Gotenstrasse 13
Place: D-20097 Hamburg
Telephone: +49(0)40-5303669711
Telefax: +49(0)40-5303669766
Internet: www.satcotek.com
Responsible Department: info@satcotek.com

1.4. Emergency telephone number:

Poison Information Center Mainz, Germany, Tel: +49(0)6131/19240

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008
This substance is not classified as hazardous in accordance with Regulation (EC) No. 1272/2008.

2.2. Label elements

Additional advice on labelling
Labelling according to Regulation (EC) No. 1272/2008 [CLP]: none

2.3. Other hazards

This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
No risks worthy of mention. Please observe the information on the safety data sheet at all times.

SECTION 3: Composition/information on ingredients

3.1. Substances

Sum formula: C6H6Na3O9P

Hazardous components

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>66170-10-3</td>
<td>2-Phospho-L-ascorbic acid trisodium salt</td>
<td>= &lt; 100 %</td>
</tr>
</tbody>
</table>

Full text of H and EUH statements: see section 16.
Further Information
Product does not contain listed SVHC substances > 0,1 % according to Regulation (EC) No. 1907/2006 Article 59 (REACH)

SECTION 4: First aid measures

4.1. Description of first aid measures

General information
In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

After inhalation
In case of accident by inhalation: remove casualty to fresh air and keep at rest. In case of respiratory tract irritation, consult a physician.

After contact with skin
Gently wash with plenty of soap and water. In case of skin irritation, seek medical treatment.

After contact with eyes
Rinse cautiously with water for several minutes. In case of troubles or persistent symptoms, consult an ophthalmologist.

After ingestion

4.2. Most important symptoms and effects, both acute and delayed
No information available.

4.3. Indication of any immediate medical attention and special treatment needed
Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media
Carbon dioxide (CO2). Dry extinguishing powder. alcohol resistant foam. Atomized water.

Unsuitable extinguishing media
High power water jet.

5.2. Special hazards arising from the substance or mixture
Can be released in case of fire: Carbon monoxide Carbon dioxide (CO2). Phosphorus oxides.

5.3. Advice for firefighters
In case of fire: Wear self-contained breathing apparatus.

Additional information
Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Co-ordinate fire-fighting measures to the fire surroundings.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Avoid dust formation.
Do not breathe dust.
Wear personal protection equipment (refer to section 8).

6.2. Environmental precautions
Discharge into the environment must be avoided.
6.3. Methods and material for containment and cleaning up

- Take up mechanically.
- Treat the recovered material as prescribed in the section on waste disposal.
- Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

- Safe handling: see section 7
- Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling
- Wear personal protection equipment (refer to section 8).

Advice on protection against fire and explosion
- Usual measures for fire prevention. Dust clouds may present an explosion hazard.

Further information on handling
- Avoid generation of dust.
- General protection and hygiene measures: See section 8.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels
- Keep container tightly closed in a cool, well-ventilated place.

Hints on joint storage

Further information on storage conditions
- Keep the packing dry and well sealed to prevent contamination and absorption of humidity.
- Recommended storage temperature: 20°C
- Protect against: frost. UV-radiation/sunlight. heat. Humidity

7.3. Specific end use(s)

- See section 1.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Additional advice on limit values
- To date, no national critical limit values exist.

8.2. Exposure controls

Appropriate engineering controls
- Technical measures and the application of suitable work processes have priority over personal protection equipment.
- Dust should be exhausted directly at the point of origin.

Protective and hygiene measures
- Always close containers tightly after the removal of product. When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work.

Eye/face protection
- Dust protection goggles.

Hand protection
- In case of prolonged or frequently repeated skin contact:
Wear suitable gloves.

Suitable material:
- FKM (fluororubber). Thickness of glove material: 0,4 mm
  Breakthrough time >= 8 h
- Butyl rubber. Thickness of glove material: 0,5 mm
  Breakthrough time >= 8 h
- CR (polychloroprenes, Chloroprene rubber). Thickness of glove material: 0,5 mm
  Breakthrough time >= 8 h
- NBR (Nitrile rubber). Thickness of glove material: 0,35 mm
  Breakthrough time >= 8 h
- PVC (Polyvinyl chloride). Thickness of glove material: 0,5 mm
  Breakthrough time >= 8 h

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Before using check leak tightness / impermeability. In the case of wanting to use the gloves again, clean them before taking off and air them well.

Skin protection
- Suitable protective clothing: Protective clothing.
- Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500 (D).

Respiratory protection
- With correct and proper use, and under normal conditions, breathing protection is not required.
- Respiratory protection necessary at:
  - Exceeding exposure limit values
  - Insufficient ventilation. and Generation/formation of dust
- Suitable respiratory protective equipment: particulates filter device (DIN EN 143). Type: P1-3
- The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

Environmental exposure controls
- No special precautionary measures are necessary.

SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Physical state:</th>
<th>Powder, solid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colour:</td>
<td>white</td>
</tr>
<tr>
<td>Odour:</td>
<td>characteristic</td>
</tr>
<tr>
<td>pH-Value:</td>
<td>8 - 10</td>
</tr>
</tbody>
</table>

#### Changes in the physical state

- Melting point: >200 (decomposition) °C
- Initial boiling point and boiling range: 245 °C
- Sublimation point: not determined
- Softening point: not determined
- Pour point: not determined
- Flash point: not determined
- Sustaining combustion: Not sustaining combustion

#### Explosive properties
- Dust clouds may present an explosion hazard.
- Lower explosion limits: not determined
Upper explosion limits: not determined
Ignition temperature: not determined
**Auto-ignition temperature**
  Solid: not determined
Decomposition temperature: not determined
**Oxidizing properties**
  none
Vapour pressure: 0.00001 hPa
  (at 20 °C)
Density: 1.94 g/cm³
Bulk density: not determined
Water solubility: 789 g/L
  (at 20 °C)
**Solubility in other solvents**
  not determined
Partition coefficient: not determined
Viscosity / dynamic: not determined
Viscosity / kinematic: not determined
Flow time: not determined
Vapour density: not determined
Solvent separation test: not determined
Solvent content: not determined

**SECTION 10: Stability and reactivity**

**10.1. Reactivity**
No information available.

**10.2. Chemical stability**
The product is chemically stable under recommended conditions of storage, use and temperature.

**10.3. Possibility of hazardous reactions**
Refer to chapter 10.5.

**10.4. Conditions to avoid**
Protect against: UV-radiation/sunlight. heat.

**10.5. Incompatible materials**
Materials to avoid: Oxidizing agents, strong. Reducing agents, strong.

**10.6. Hazardous decomposition products**
Can be released in case of fire: Carbon monoxide Carbon dioxide (CO2). Phosphorus oxides.

**SECTION 11: Toxicological information**

**11.1. Information on toxicological effects**
Toxicokinetics, metabolism and distribution
No data available.
Acute toxicity
Based on available data, the classification criteria are not met.
No data available.

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>Exposure route</th>
<th>Dose</th>
<th>Species</th>
<th>Source</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>66170-10-3</td>
<td>2-Phospho-L-ascorbic acid trisodium salt</td>
<td>oral</td>
<td>LD50</td>
<td>&gt;5000</td>
<td>Rat</td>
<td>ECHA Dossier</td>
</tr>
<tr>
<td></td>
<td></td>
<td>dermal</td>
<td>LD50</td>
<td>&gt;2000</td>
<td>Rat</td>
<td>ECHA Dossier</td>
</tr>
</tbody>
</table>

Irritation and corrosivity
Based on available data, the classification criteria are not met.
No data available.

Sensitising effects
Based on available data, the classification criteria are not met.
No data available.

Carcinogenic/mutagenic/toxic effects for reproduction
Based on available data, the classification criteria are not met.
In-vitro mutagenicity: Method: OECD Guideline 471 (Bacterial Reverse Mutation Assay); Result: negative.
Literature information: ECHA Dossier;

STOT-single exposure
Based on available data, the classification criteria are not met.
No data available.

STOT-repeated exposure
Based on available data, the classification criteria are not met.
Subchronic oral toxicity:
Method: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity in Rodents)
Species: Rat
Results: NOAEL =90 (f) - 424 (m )mg/kg
Literature information: ECHA Dossier

Aspiration hazard
Based on available data, the classification criteria are not met.
No data available.

Specific effects in experiment on an animal
No data available.

SECTION 12: Ecological information

12.1. Toxicity
No data available.

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>Aquatic toxicity</th>
<th>Dose</th>
<th>[h]</th>
<th>[d]</th>
<th>Species</th>
<th>Source</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>66170-10-3</td>
<td>2-Phospho-L-ascorbic acid trisodium salt</td>
<td>Acute fish toxicity</td>
<td>LC50</td>
<td>5855</td>
<td>96</td>
<td>Brachydanio rerio (zebra-fish)</td>
<td>ECHA Dossier</td>
<td>OECD 203</td>
</tr>
</tbody>
</table>
12.2. Persistence and degradability

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>Method</th>
<th>Value</th>
<th>d</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>66170-10-3</td>
<td>2-Phospho-L-ascorbic acid trisodium salt</td>
<td>Evaluation</td>
<td>Moderate/partially biodegradable.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

12.3. Bioaccumulative potential

No indication of bioaccumulation potential.

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

12.6. Other adverse effects

No data available.

Further information

Do not allow to enter into surface water or drains.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Observe in addition any national regulations! Consult the local waste disposal expert about waste disposal.

Non-contaminated packages may be recycled.

According to (EWC) European Waste Catalogue, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.

Control report for waste code/ waste marking according to (EWC) European Waste Catalogue:

List of Wastes Code - residues-unused products

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>070699</td>
<td>WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics; wastes not otherwise specified</td>
</tr>
</tbody>
</table>

List of Wastes Code - used products

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>070699</td>
<td>WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics; wastes not otherwise specified</td>
</tr>
</tbody>
</table>

List of Wastes Code - contaminated packaging

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>150106</td>
<td>WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); mixed packaging</td>
</tr>
</tbody>
</table>

Contaminated packaging

Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)
### 14. UN number and proper shipping name

<table>
<thead>
<tr>
<th>Mode of Transport</th>
<th>UN number</th>
<th>Proper Shipping Name</th>
<th>Transport Hazard Class(es)</th>
<th>Packing Group</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inland waterways transport (ADN)</td>
<td></td>
<td></td>
<td>No dangerous good in sense of this transport regulation.</td>
<td></td>
</tr>
<tr>
<td>Marine transport (IMDG)</td>
<td></td>
<td></td>
<td>No dangerous good in sense of this transport regulation.</td>
<td></td>
</tr>
<tr>
<td>Air transport (ICAO-TI/IATA-DGR)</td>
<td></td>
<td></td>
<td>No dangerous good in sense of this transport regulation.</td>
<td></td>
</tr>
</tbody>
</table>

### Environmental hazards

No ENVIRONMENTALLY HAZARDOUS.

### Special precautions for user

Refer to section 6-8

### Transport in bulk according to Annex II of Marpol and the IBC Code

Not relevant

### SECTION 15: Regulatory information

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

**EU regulatory information**

- 2010/75/EU (VOC): No information available.
- 2004/42/EC (VOC): No information available.
- Information according to 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III)

**Additional information**

- The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].
- REACH 1907/2006 Appendix XVII: not relevant

**National Regulatory information**

- Water contaminating class (D): 1 - slightly water contaminating

**15.2. Chemical safety assessment**

For this substance a chemical safety assessment has not been carried out.
SECTION 16: Other information

Changes

Rev. 1.0; Initial release; 07.01.2020

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route
AwSV: Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen
AGW: Arbeitsplatzgrenzwert
AVV: Abfallverzeichnisverordnung
CAS: Chemical Abstracts Service
CLP: Classification, Labelling and Packaging of substances and mixtures
DNEL: Derived No Effect Level
d: day(s)
EAKV: Europäisches Abfallverzeichnis gemäß Entwurf Abfallverzeichnisverordnung
EINECS: European Inventory of Existing Commercial chemical Substances
ELINCS: European List of Notified Chemical Substances
ECHA: European Chemicals Agency
EWC: European Waste Catalogue
IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
IATA-DGR: Dangerous Goods Regulations by the “International Air Transport Association” (IATA)
ICAO: International Civil Aviation Organization
ICAO-TI: Technical Instructions by the “International Civil Aviation Organization” (ICAO)
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)
h: hour
LOAEL: Lowest observed adverse effect level
LOAEC: Lowest observed adverse effect concentration
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
NOAEL: No observed adverse effect level
NOAEC: No observed adverse effect concentration
NLP: No-Longer Polymers
N/A: not applicable
OECD: Organisation for Economic Co-operation and Development
PNEC: predicted no effect concentration
PBT: Persistent bioaccumulative toxic
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
REACH: Registration, Evaluation, Authorisation of Chemicals
SVHC: substance of very high concern
TRGS: Technische Regel für Gefahrstoffe
UN: United Nations
VOC: Volatile Organic Compounds
VwVwS: Verwaltungsvorschrift wassergefährdender Stoffe
WGK: Wassergefährdungsklasse

Further Information

Classification according to Regulation (EC) No 1272/2008 [CLP] - Classification procedure:

Health hazards: Calculation method.
Environmental hazards: Calculation method.
Physical hazards: On basis of test data and / or calculated and / or estimated.
The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.