

## SOLSACAT™ 18A

### Section 1 - Chemical product and company identification.

Product Name	: SOLSACAT™ 18A
Purpose of the Product	: Paper Industry
Supplier	: PT Starch Solution Internasional <i>Kawasan Industri Indotaisei Kav F-3 Sec 1A, Cikampek, Karawang, West Java, Indonesia 41373 Phone : 62-264-351162, 63, 64 Fax : 62-264-351481, 82 Website : <a href="http://www.starch-solution.com">http://www.starch-solution.com</a></i>

### Section 2 - Composition/ Information on ingredients

Chemical family	: Cationic tapioca Starch Derivative
CAS nr.	: 56780-58-6

### Section 3 - Hazards identification

Adverse effects on health and environment	: The product does not contain ingredients that are known to give adverse effects on health or the environment.
Classification system	: The classification is according to the latest editions of the EU Directives on Dangerous Products and Preparations (67/548/EEC and 1999/45/EC), and extended by company and literature data.
Other hazards	: All powders are organic origin represent a hazard of dust explosions.

### Section 4 - First-aid measures

Inhalation	: Move patient to fresh air. If symptoms develop, obtain medical attention.
Ingestion	: Rinse mouth and throat thoroughly with water. Drink water.
Eye contact	: Rinse with plenty of water for at least 10 minutes. If symptoms develop, obtain medical attention.
Skin contact	: Wash skin with plenty of water.

### Section 5 - Fire-fighting measures

Extinguishing media	: Powder, foam or water fogs are suitable.
Protective equipment for fire fighters	: Standard breathing apparatus and protective clothing should be used.

### Section - 6 Accidental release measures

Personal precautions	: In case of raising dust breathing protection is recommended. Mask filter type: FFP2.
Methods for cleaning up	: After spillage or leakage removes the waste in dry form if possible with explosion proof vacuum cleaner, avoid making dust. Otherwise flush with plenty of cold/hot water.
Remark	: Wet material on floor surface can be a slipping hazard.

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### Section – 7 Handling and Storage

- Handling : Ensure good ventilation/exhaustion at the workplace. Avoid excessively raising dust. Regular removal of dust deposits is recommended. Systems for transport or storage of powders: take precautions against dust explosions. All handling equipment must be properly grounded.
- Storage : Store the product cool and dry, protected against extreme weather conditions. Keep the packaging well closed and sound.

### Section – 8 Exposure controls / personal protection

- Engineering measures : Prevent dust build up on equipment by vacuum cleaning regularly. Use ventilation in the surroundings. See also section 7.
- Personal protective equipment : Respiratory protection: In case of raising dust a breathing protection is recommended: mask filter type FP2 (European standard) for fine particles.  
Hand protection : Suitable gloves are recommended.  
Eye protection : Wear safety glasses with side shields.
- General protective and hygienic measures : Remove all contaminated clothes. Wash hands before breaks and at end of work.

### Section – 9 Physical and chemical properties

- Form : Powder  
Colour : White  
Odour : Neutral
- pH value : ~ 4.0 ( 40 g/l Suspension )  
Bulk density : ~ 550 kg/m<sup>3</sup>  
Solubility in water : Colloidal dispersible in hot water
- Explosion properties  
Min. Ignition Energy : > 100 mJ  
Min. Ignition Temperature : 300...500 °C  
Minimal (5mm) layer Ignition Temperature : 275...400 °C
- Kst-value : ~ 159 bar.m/s  
St Class : 1  
Combustibility Class : 1...2
- Explosion overpressure, Pmax : ~ 8.9 bar
- Estimated onset temperature for thermal instability : ~ 227 °C
- Remark : This product is manufactured from a botanical resource. As consequence the dust explosion properties can vary.

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### Section – 10 Stability and reactivity

- Circumstances to avoid : Static electricity in the presence of dust  
Thermal decomposition products : No thermal decomposition if used as directed.

### Section 11 – Toxicological information

- Toxicology : This product is not classified as a dangerous substance under EU regulations. No starch derivatives are currently known to be toxic.

### Section 12 – Ecological information

- Eco-toxicity : This product is not classified as dangerous to the environment under EU regulations.  
Persistence / degradability : This product is expected to be medium biodegradable.

### Section 13 – Disposal considerations

- Recommendations : Disposal in compliance with local, state, or national legislation governing the disposal of waste. Usually the product may be land filled or incinerated together with household refuse.

### Section 14 – Transport information

- Classification : According to transport regulations this product is not classified as dangerous Goods.

### Section 15 – Regulatory information

- General information : The product is not classified as a dangerous substance under EC regulations, and consequently does not require mandatory labelling. When exported outside the EC, take into consideration the possible existence of stricter local regulations.

As a consequence of the classification rules, polymeric products like starch derivatives do not have an EINECS or ELINCS number. Starch as product or raw material for derivatives of starch has the EINECS number 232-679-6.

- Application specific information : This product is meant to be used for conventional technical applications, included as a component of articles intended for direct contact with food.  
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This product is meant to be used for conventional technical applications, included as a component of articles intended for direct contact with food. As described in the USA 21CFR § 178.3520 this product meets the requirements for Industrial starch modified, implying that it also meets the requirements for paper and paperboard as given in 21CFR § 176.170 and 21CFR § 176.180.  
As described by the BRD BfR, this product meets the requirements in Empfehlung XXXVI.

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### Section 16 – Other information

Remarks	: Directive 91/155/EC as renewed in EC Directive 2001/58/EC has been considered when compiling this SDS.
Revision of data	: Data that has been altered since the latest update is marked in the margin.
Disclaimer	: All information in this MSDS is based on available data, our practical experience and reliable laboratory evaluations. However, the information is provided without warranty, express or implied, regarding its correctness. For this and other reasons, we cannot assume any responsibility for its use, the circumstances under which the products are stored, handled or disposed. If the product is used as a component in another product, the information in this SDS may not be applicable. The user should be make a risk assessment for the process installation and the operational procedures used.