

MATERIAL SAFETY DATA SHEET

(In accordance with EU Directive 91/155/EEG)



Type: **FLOWSTAR Type E-Ideal**

Article: Anti set-off spray powder

Date: 2015/01/05

1. Material / Preparation and Company Name

Trade Name: **FLOWSTAR Anti set-off spray powder type E-Ideal**

Application: Use in the field of sheet-fed offset printing in purposely installed anti set-off powder sprayers for anti set-off powder application to freshly printed sheets to prevent fresh ink off setting. (spacer between individual sheets)

Manufacturer: **FLOWSTAR GmbH, Brunnmatt 603, CH-6264 Pfaffnau**
Phone +41 (0)62 747 00 20 / Fax +41 (0)62 747 00 21

Dealer:

Number in case of Emergency: +41 (0)44 251 51 51 (Toxicological Information Centre Switzerland)

2. Composition / Information Regarding Ingredients

Composition: Native starch, white powder

Chemical Formula: C₆H₁₀O₅

Material dangerous to health: non

3. Possible Dangers

Preparation is not dangerous according to the regulation concerning dangerous materials.

4. First-aid Measures

Eye contact: Rinse eyes using running water. Not dangerous, if redness of the eyes occurs, it is recommended to consult a physician.

Skin contact: Wash with water. Substance is not of a caustic or similar irritating nature.

Inhalation: Not important if continuous fresh air is provided over a long continuous period. Person with an increased risk of asthma, if possible should place a dampened cloth around the nose or avoid work totally. Not dangerous with normal use.

Swallowing: Not dangerous.

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5. Measures to take in case of fire

Extinguishing means: For powder alone: water.

Recommendations: Use foam or extinguishing powder in combination with printing inks or if mixed (batch) due to predominately soluble ingredients contained in printing inks.

6. Measures of take in case of accidental release

Small quantities can be washed away with water and released into the canalization, drainage, or sewage system. Larger quantities should be disposed of in local household refuse disposing systems.
(Food substance)

7. Handling and storing

In normal use highly improbable in printing rooms; during the manufacture of powder, when mixing with high speeds, the mixing rotors are closed and well-grounded equipment used.
(EU Classification ST1)

Avoid contact with substances which release oxidants (e.g. PbO_2). Partially contained in lubricating oils.

Storage: Store in dry place.

8. Exposure and personal protections outfits

Note the national rules on unspecified total concentrations of dust, average MAK $\leq 10 \text{ mg/m}^3$.

9. Physical and chemical characteristics (Properties)

Form: Powder

Colour: white (whitish)

Odor: neutral

pH-Value by 20 °C: ca. 6.5

Thermal decomposition: no

Dangerous decomposition: no

Ignition temperature: ca. 460° C (dust-air-mixed)

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Explosion limits: ca. 30 - 60 m/m³

Density: ca. 0.66 kg/ l

Solubility in H₂O by 20° C: insoluble

10. Stability and reactivity

Stable when storage regulations are observed. Store in a dry place. In case of fire formation of smoke by carbonization. No formation of poisonous gases other than smoke.

11. Declaration regarding toxicology

LD₅₀: non

Not dangerous to health since the same substance is also used as basis for food substances. Avoid particle concentrations in the air which are too high. Not to be used for persons with asthma.

12. Declaration regarding ecology

LD₅₀: non

Not dangerous for water or soil. Starch (99 %) is a basic food substance and is ecologically degradable. The silicate compounds used as additives are found in nature.

13. Instructional for disposal

Small quantities (up to 250 g) may, but should not be disposed of using the canalization, drainage system. It is better to use the household refuse disposal system for disposal. Larger quantities (tons) should be given to the local refuse burning installation or compost installation.

14. Declarations for transport

Anti set-off spray powder does not come under the regulations for transporting dangerous goods.

RID/ADR: none

RTMDR: none

IMDG: none

IATA/OACI: none

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15. Regulations

Classification according to EU directives:

The product, according to EU directives / regulations for dangerous goods, must not be labelled.

National regulations: RID/ADR 40, not a dangerous good, RID/ADR, not classified as a poison.

R-Sentence: no

S-Sentence: no

16. Additional Information

The information in this material safety data sheet corresponds to our present state of knowledge and fullfills national as well as EU legislation. The given working conditions of the user, however, is out of our control. The user is responsible for observing all necessary legal regulations. The information in this material safety data sheet describes the safety requirements of our product and do not represent assurance of product characteristics.