



Safety data sheet
according to 1907/2006/EC, Article 31

Printing date: 05.04.2011

Version: 2

Revision: 05.04.2011

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

- . **Product identifier**
- . **Trade name: FlocStar® 2238 P SP15**
- . **Relevant identified uses of the substance or mixture and uses advised against**
- . **Application of the substance / the preparation** Process aid for industrial applications.
- . **Details of the supplier of the safety data sheet**
- . **Manufacturer/Supplier:**
APPLIED CHEMICALS APPLICATION TECHNOLOGY LTD.
Titan House, Central Arcade
Cleckheaton Bradford
BD19 5DN, Reg. in UK 07108323
- . **Further information obtainable from:**
Responsible Care Management
karin.pruckmair@acat.com
- . **Emergency telephone number:** National Poisons Emergency number: 0870 600 6266
- . **Issued:** 04.09.2006

Tel: +44 (1274) 866 851
Fax: +44 (1274) 866 833

2 Hazards identification

- . **Classification of the substance or mixture**
- . **Classification according to Regulation (EC) No 1272/2008** The product is not classified according to the CLP regulation.
- . **Classification according to Directive 67/548/EEC or Directive 1999/45/EC** Not applicable.
- . **Information concerning particular hazards for human and environment:**
The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
- . **Classification system:**
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.
- . **Label elements**
- . **Labelling according to EU guidelines:**
The product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous Materials (German GefStoffV).
Observe the general safety regulations when handling chemicals.
- . **Other hazards** Spills produce extremely slippery surfaces.
- . **Results of PBT and vPvB assessment**
- . **PBT:** Not applicable.
- . **vPvB:** Not applicable.

3 Composition/information on ingredients

- . **Chemical characterization: Mixtures**
- . **Description:** cationic water-soluble polymer
- . **Dangerous components:** Void

4 First aid measures

- . **Description of first aid measures**
- . **General information:** No special measures required.
- . **After inhalation:** Supply fresh air; consult doctor in case of complications.
- . **After skin contact:**
Instantly wash with water and soap and rinse thoroughly.
If skin irritation continues, consult a doctor.
- . **After eye contact:** Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

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- . **After swallowing:**
If symptoms persist consult a doctor.
Rinse out mouth and then drink plenty of water.

5 Firefighting measures

- . **Extinguishing media**
- . **Suitable extinguishing agents:** Foam, Dry powder, Carbon dioxide (CO₂), in preference to water spray/fog.
- . **Special hazards arising from the substance or mixture** Product forms slippery surface when combined with water.
- . **Advice for firefighters**
- . **Protective equipment:**
As for all fires involving chemicals: chemical protection suit, suitable gloves, boots and self contained breathing apparatus.
- . **Additional information** Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

6 Accidental release measures

- . **Personal precautions, protective equipment and emergency procedures**
Product forms slippery surface when combined with water.
- . **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- . **Methods and material for containment and cleaning up:**
Do not flush with water or aqueous cleansing agents
Pick up mechanically.
Dispose of the material collected according to regulations.
- . **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and storage

- . **Handling:**
- . **Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Wear suitable respiratory protective device when decanting larger quantities without extractor facilities.
Prevent formation of dust.
- . **Information about fire - and explosion protection:** No special measures required.
- . **Conditions for safe storage, including any incompatibilities**
- . **Storage:**
- . **Requirements to be met by storerooms and receptacles:** No special requirements.
- . **Information about storage in one common storage facility:** Not required.
- . **Further information about storage conditions:**
Protect from frost.
Store in cool, dry conditions in well sealed receptacles.

8 Exposure controls/personal protection

- . **Additional information about design of technical facilities:** No further data; see item 7.
- . **Control parameters**
- . **Ingredients with limit values that require monitoring at the workplace:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- . **Additional information:** The lists valid during the making were used as basis.
- . **Exposure controls**
- . **Personal protective equipment:**
- . **General protective and hygienic measures:**
The usual precautionary measures are to be adhered to when handling chemicals.
Wash hands before breaks and at the end of work.
Do not inhale dust / smoke / mist.
Avoid contact with the eyes and skin.
- . **Respiratory protection:** Dust safety masks are recommended where concentration of total dust is more than 10 mg/m³.

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. Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

. Material of gloves

rubber gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

. Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

. Eye protection: Goggles recommended during refilling**. Body protection:** Protective work clothing

9 Physical and chemical properties

. Information on basic physical and chemical properties**. General Information****. Appearance:**

Form:	Powder Granulate
Colour:	White
Odour:	Odourless

. pH-value (5 g/l) at 20°C: 2.5 - 4.5

. Change in condition**Melting point/Melting range:** Not applicable**Boiling point/Boiling range:** Not applicable

. Flash point: Not applicable.

. Self-igniting: Product is not selfigniting.

. Danger of explosion: Product does not present an explosion hazard.

. Density: see specific Technical Bulletin

. Solubility in / Miscibility with water: see specific Technical Bulletin

10 Stability and reactivity

. Reactivity**. Chemical stability****. Thermal decomposition / conditions to be avoided:**

Protect from frost.

No decomposition if used and stored according to specifications.

. Possibility of hazardous reactions Reacts with oxidizing agents.**. Hazardous decomposition products:**

hydrogen chloride gas

Carbon monoxide and carbon dioxide

Nitrogen oxides (NOx)

11 Toxicological information

. Information on toxicological effects**. Acute toxicity:****. LD/LC50 values relevant for classification:**

Oral LD50 >5000 mg/kg (rat)

. Primary irritant effect:**. on the skin:** No irritant effect.**. on the eye:** No irritating effect.**. Sensitization:** No sensitizing effects known.

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. Additional toxicological information:

The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.

When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

12 Ecological information**. Toxicity****. Aquatic toxicity:**

EC50/48h >50 mg/l (Daphnia magna) (OECD 202)

LC50/96h 10 - 100 mg/l (Danio rerio) (OECD 203)

. Behaviour in environmental systems:**. Bioaccumulative potential** No bioaccumulation.**. Other information:**

At natural pHs (>6) the polymer degrades due to hydrolysis to more than 70 % in 27 days. The hydrolysis products are not harmful to aquatic organisms.

. Ecotoxicological effects:**. Remark:**

The effects of this product on aquatic organisms are rapidly and significantly mitigated through hydrolysis and by the presence of dissolved organic carbon in the aquatic environment.

. Additional ecological information:**. General notes:**

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

. Results of PBT and vPvB assessment**. PBT:** Not applicable.**. vPvB:** Not applicable.**13 Disposal considerations****. Waste treatment methods****. Recommendation** Disposal must be made according to official regulations.**. Uncleaned packaging:****. Recommendation:**

Disposal must be made according to official regulations.

Packagings that may not be cleansed are to be disposed of in the same manner as the product.

. Recommended cleansing agents: Water, if necessary together with cleansing agents.**14 Transport information****. Land transport ADR/RID (cross-border)****. ADR/RID class:** -**. Maritime transport IMDG:****. IMDG Class:** -**. Marine pollutant:** No**. Air transport ICAO-TI and IATA-DGR:****. ICAO/IATA Class:** -**. UN "Model Regulation":** -**. Special precautions for user** Not applicable.

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15 Regulatory information

- . **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- . **National regulations:**
- . **Waterhazard class:** Water hazard class 2 (Self-assessment): hazardous for water.
- . **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- . **Department issuing MSDS:** Responsible Care Management

- . **Contact:**

Ing. Karin Pruckmair
karin.pruckmair@acat.com
www.acat.com

- . **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
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
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent

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