

SAFETY DATA SHEET (EC 1907/2006)

FAVOR PAC 230

Version: 1.4 / GB VA-No.
Revision date: 20.09.2016
Issue date: 15.04.2011
replaces version: 1.3
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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

FAVOR PAC 230 / Imsorb / H2O Barrier

Substance name : Sodium polyacrylate, crosslinked.
CAS-No. : 9003-04-7
CLP-No. : -
REACH-No. : -
EINECS-No. : Polymer

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

Relevant applications identified : Industrial use

1.3. Details of the supplier of the safety data sheet

Evonik Nutrition & Care GmbH
Bäckerpfad 25
47805 Krefeld
Germany
+49 (0) 2151-38-1370

E-Mail: usgq-krefeld@evonik.com

Emergency telephone number

Emergency information +49 (0) 2365 49-2232 (Interpreting service available)
Emergency information +49 (0) 2365 49-4423 (fax)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.2. Label elements

No labeling elements required.

2.3. Other hazards

Spilled product in contact with water or moisture causes surfaces to become extremely slippery

SECTION 3: Composition/information on ingredients

Sodium polyacrylate, crosslinked.

3.1. Substances

Information on ingredients / Hazardous components as per EU-CLP Regulation (EC) No. 1272/2008

Chemical Name	CAS-No. EC-No. REACH-No.	Concentration	Classification
Sodium polyacrylate, cross-linked.	9003-04-7 --- ---	>= 95.0 %	Not applicable

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Texts of H phrases, see in Chapter 16

3.2. Mixtures

-

SECTION 4: First aid measures

4.1. Description of first aid measures

Skin contact : Wash off with soap and plenty of water. Change contaminated clothing.
Eye contact : Rinse with plenty of water, seek medical advice if necessary.
Ingestion : In case of complaints get medical advice.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms : None known

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

In case of swallowing: Drink plenty of water

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray, foam, CO2, dry powder.
Unsuitable extinguishing media : High volume water jet

5.2. Special hazards arising from the substance or mixture

carbon monoxide, carbon dioxide

5.3. Advice for firefighters

No particular measures required.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Spilled product in contact with water or moisture causes surfaces to become extremely slippery

6.2. Environmental precautions

Take up. Flush small residual amounts into sewage system with plenty of water for biological wastewater treatment.

6.3. Methods and material for containment and cleaning up

Sweep up and shovel into suitable containers for disposal.
Clean thoroughly.
Repeat procedure if necessary.

6.4. Reference to other sections

For personal protection see section 8.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Safe handling advice : Wear dust mask in the presence of dust. If maximum admissible concentration value at the workplace is exceeded, apply dust mask. Ensure adequate ventilation.
- Advice on protection against fire and explosion : Take precautionary measures against static discharges. The product itself is not explosive; however, fine dust may mix with air to product explosive mixtures.

7.2. Conditions for safe storage, including any incompatibilities

- Requirements for storage areas and containers : Average temperature for loose bulk storage over 3 m³ must not exceed 50°C. Store in a dry place. Protect from moisture.

7.3. Specific end use(s)

no

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Components or products of decomposition according to point 10, with limit values related to the place of work which require monitoring

Sodium polyacrylate, cross-linked. 9003-04-7
MAK (DFG) 0.05 mg/m³
Alveolar fraction
Cat. 4

C - No risk of embryotoxic effects if TLV and BTV limits are complied with.

The European Disposables and Nonwovens Association (EDANA) recommends a workplace threshold limit value of 0.05 mg/cbm of alveolar dust from superabsorbent polymer (particle size less than 10 microns), based on the NOEL (No Observed Effect Level) from the 2-year inhalation study (see Section 11).

8.2. Exposure controls

- Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.
- Respiratory protection : Wear dust mask in the presence of dust. If maximum admissible concentration value at the workplace is exceeded, apply dust mask.
- Hand protection : not required
- Eye protection : Safety glasses

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

- Form : powders
- Colour : white
- Odour : odourless
- pH : ca. 6.0
1.0 g/l
Remarks: in 0.9% NaCl
- Melting point : n.a.
- Boiling point : n.a.
- Flash point : n.a.

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Vapour pressure : < 10 hPa
(20 °C)

Water solubility : Essentially insoluble.

Thermal decomposition : Stable under usual application conditions.

Viscosity, dynamic : n.a.

Density : ca. 0.7 g/cm³

9.2. Other information

Bulk density : approx. 660 kg/m³

Other information : none

SECTION 10: Stability and reactivity

10.1. Reactivity

see section 10.2.

10.2. Chemical stability

Stable under usual application conditions.

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

Avoid temperatures above 200°C. initial temperature of decomposition

10.5. Incompatible materials

No known incompatibility with other materials.

10.6. Hazardous decomposition products

None known.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : LD50
Species: Rat
Dose: > 5,000 mg/kg
Method: OECD 401, limit test

Acute toxicity (dermal) : LD50
Species: Rat
Dose: > 2,000 mg/kg
Method: OECD 402, limit test

Irritation/corrosion of the skin : Species: rabbit
Method: OECD 404
Remarks: not irritating

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Serious eye damage/ eye irritation : Species: Rabbit
Method: OECD 405
Remarks: Very slight eye irritation.
particle effect

Respiratory/skin sensitization : Species: guinea pig
Method: OECD 406
Remarks: not sensitizing

CMR assessment

Carcinogenicity : no evidence for hazardous properties

Teratogenicity : no evidence for hazardous properties

Toxicity to reproduction : no evidence for hazardous properties

Genotoxicity in vitro : Result: not mutagenic
Method: Ames-test
Remarks: not mutagenic in bacteria *in vitro*

Result: not mutagenic
Method: mouse lymphoma test
Remarks: not mutagenic in *in vivo* and *in vitro* tests

Genotoxicity in vivo : Micronucleus test
Method: OECD TG 474
Result: not mutagenic

Specific Target Organ Toxicity - Repeated exposure : A chronic (2-year) lifetime inhalation study in rats, carried out using micronized dust from a superabsorbent polymer (to obtain completely inhalable particles) revealed a non-specific inflammatory reaction in the lungs. Tumours formed in several animals at the highest chronically administered concentration. (See workplace monitoring / protective equipment, Section 8). Tumours are not to be expected in the absence of chronic inflammation. The study revealed a defined NOEL of 0.05 mg/cbm of micronized dust from superabsorbent polymer.

Aspiration hazard : not applicable

Other information : The studies listed in fields 11 / 12 were performed on a comparable product at the Laboratory for Toxicology and Ecology, Evonik Stockhausen GmbH, Krefeld 2-year study excluded.

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SECTION 12: Ecological information

12.1. Toxicity

- Aquaticity, fish : Species: *Leuciscus idus* (Golden orfe)
Exposure duration: 96 h
LC50: > 5,500 mg/l
Method: OECD TG 203

Species: *Danio rerio* (zebra fish)
Exposure duration: 96 h
LC50: > 4,000 mg/l
Method: OECD TG 203
- Aquaticity, in vertebrates : Species: *Tetrahymena pyriformis*
EC50: > 6,000 mg/l
Method: Erlanger Ciliatentest (Prof. Gräf)
- Toxicity in microorganisms : Species: *Pseudomonas putida*
Exposure duration: 24 h
EC50: > 6,000 mg/l
Method: DEV L8
- Toxicity in organisms which live in the soil : Acute earthworm toxicity
Species: *Eisenia foetida*
Exposure duration: 14 d
LC50: > 20,000 mg/kg

Method: OECD TG 207

12.2. Persistence and degradability

- Biological degradability : Method: OECD TG 302 B
Remarks: practically no decomposition
- Physico-chemical removability : The product is readily eliminated in water treatment plants due to its insolubility.

12.3. Bioaccumulative potential

- Bioaccumulation : Does not bioaccumulate.

12.4. Mobility in soil

- Environmental distribution : no evidence for hazardous properties

12.5. Results of PBT and vPvB assessment

- PBT and vPvB assessment : PBT: no
vPvB: no

12.6. Other adverse effects

- General Information : None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

- Product : Can be disposed of as a solid waste or burned in a suitable installation subject to local regulations.

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Contaminated packaging : Do not re-use empty containers.

SECTION 14: Transport information

Not dangerous according to transport regulations.

14.1. UN number: --
14.2. UN proper shipping name: --
14.3. Transport hazard class(es): --
14.4. Packing group: --
14.5. Environmental hazards: --
14.6. Special precautions for user: No

SECTION 15: Regulatory information

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

National legislation

Chemical safety assessment : No Chemical Safety Report as per Articles 2(8), 2(9) or 14 of the REACH Regulation is required for this product.

Status of Registration

Europe (EINECS/ELINCS)	listed or exempted
TSCA (USA)	listed or exempted
DSL (CDN)	listed or exempted
AICS (AUS)	listed or exempted
METI (J)	listed or exempted
ECL (KOR)	listed or exempted
PICCS (RP)	listed or exempted
IECSC (CN)	listed or exempted
HSNO (NZ)	listed or exempted

SECTION 16: Other information

List of references

References : relevant manuals and publications
own examinations
own toxicological and ecotoxicological studies
toxicological and ecotoxicological studies of other manufacturers
SIAR
OECD-SIDS
RTK public files

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Changes since the last version are highlighted in the margin. This version replaces all previous versions.

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Legend

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADNR	European agreement concerning the international carriage of dangerous goods by inland waterways (ADN)
ASTM	American Society for Testing and Materials
ATP	Adaptation to Technical Progress
BCF	Bioconcentration factor
BetrSichV	German Ordinance on Industrial Safety and Health
c.c.	closed cup
CAS	Chemical Abstract Services
CESIO	European Committee of Organic Surfactants and their Intermediates
ChemG	German Chemicals Act
CMR	carcinogenic-mutagenic-toxic for reproduction
DIN	German Institute for Standardization
DMEL	Derived minimum effect level
DNEL	Derived no effect level
EINECS	European Inventory of Existing Commercial Chemical Substances
EC50	half maximal effective concentration
GefStoffV	German Ordinance on Hazardous Substances
GGVSEB	German ordinance for road, rail and inland waterway transportation of dangerous goods
GGVSee	German ordinance for sea transportation of dangerous goods
GLP	Good Laboratory Practice
GMO	Genetic Modified Organism
IATA	International Air Transport Association
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
ISO	International Organization For Standardization
LOAEL	Lowest observed adverse effect level
LOEL	Lowest observed effect level
NOAEL	No observed adverse effect level
NOEC	no observed effect concentration
NOEL	no observed effect level
o. c.	open cup
OECD	Organisation for Economic Cooperation and Development
OEL	Occupational Exposure Limit
PBT	Persistent, bioaccumulative, toxic
PEC	Predicted effect concentration
PNEC	Predicted no effect concentration
REACH	REACH registration
RID	Convention concerning International Carriage by Rail
STOT	Specific Target Organ Toxicity
SVHC	Substances of Very High Concern
TA	Technical Instructions
TPR	Third Party Representative (Art. 4)
TRGS	Technical Rules for Hazardous Substances
VCI	German chemical industry association
vPvB	very persistent, very bioaccumulative
VOC	volatile organic compounds
VwVwS	German Administrative Regulation on the Classification of Substances Hazardous to Waters into Water Hazard Classes
WGK	Water Hazard Class
WHO	World Health Organization