

Identification of the Substance/Preparation and the Company/Undertaking

Product name	:	Hybrane® PS 1925
Supplier	:	Polymer Factory Sweden AB Teknikringen 48 SE-114 28 Stockholm, Sweden http://www.polymerfactory.com
Further information obtainable from	:	Polymer Factory Sweden AB (as above)
Information in case of emergency	:	(Int.) +46 8 337043 (Emergency Response Center, Sweden)

Composition/Information on Ingredients

Chemical Family	:	Hyperbranched Polyesteramide based on proprietary knowledge
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Hazards Identification

Physical /Chemical hazards	:	Expected to be Non-toxic, Non-irritant and Non-sensibilising and Non-mutagenic based on studies with analogous compounds
Environmental Hazards	:	None Expected
Effects of Over-Exposure	:	None Expected

First Aid Measures

After Inhalation	:	If irritation persists (nuisance dust), get medical attention
After Skin Contact	:	If irritation persists (nuisance dust), get medical attention
After Eye Contact	:	If irritation persists (nuisance dust), get medical attention
After Swallowing	:	If irritation persists (nuisance dust), get medical attention

Fire Fighting Measures

Suitable Extinguishing Agents	:	Powder B, Powder A, Water, Foam, Carbon Dioxide (CO ₂)
Specific Hazards	:	Hazardous thermal decomposition and combustion products include Nitrogen Oxides (NO ₂), Ammonia (NH ₃), Carbon Monoxide (CO), Carbon Dioxide (CO ₂)
Fire Fighting Instructions	:	Use self-contained breathing apparatus and skin protection

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Accidental Release Measures

Person-Related Safety Precautions	:	Use appropriate protection, *see section on "Exposure Control and Personal Protection" below
Environmental Protection	:	No hazards expected. *see section on "Ecological Information" below
Cleaning and Collecting	:	Collect spill material in sealable, labeled containers for later disposal

Handling and Storage

Safe Handling	:	Normal standard practices of hygiene are applicable
Storage	:	1. Store in closed containers 2. Keep containers closed when not in use.
Recommended Packaging	:	Stainless Steel, Metal, Aluminium, Nickel, PP and Glass

Exposure Control & Personal Protection

Personal Protective Equipment

- | | | |
|---------------------------------------|---|---|
| i) Respiratory Protection | : | Use dust mask or filter respiratory as necessary |
| ii) Skin & Body Protection | : | Not applicable, but handle in accordance with good industrial hygiene and safety practices. These practices include avoiding unnecessary exposure and removal of the material from eyes, skin and clothing. |
| iii) Eye protection | : | Face shield or safety goggles as necessary |
| iv) Other Protection | : | Eye wash facility and emergency shower |

Occupational Exposure Limits	:	Respiratory limit : 5 mg/m ³ Inhalation Limit : 10 mg/m ³
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*Engineering Controls	:	Use ventilation as necessary
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Physical and Chemical Properties

General information

Molecular Formula	:	C ₁₂ H ₂₄ O ₂ · x (C ₈ H ₁₀ O ₃ · C ₆ H ₁₅ NO ₂) _x
Building Block	:	Phthalic Anhydride
Branching unit	:	Diisopropanol Amine
End groups	:	Stearic Acid Ester (about 25%), Secondary OH
Theoretical Molecular Weight	:	1900 g/mol
Form (aggregation form)	:	Solid as powder or lumps
Color	:	Off white
Odor	:	Slight

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Change in condition

Melting Point/Melting Range	:	Not determined
Boiling Point/Boiling Range	:	> 250 °C
Glass Transition Temperature, Tg	:	Not determined

Specific Gravity : Not determined

Solubility at 20 °C

i) **Water** : Insoluble

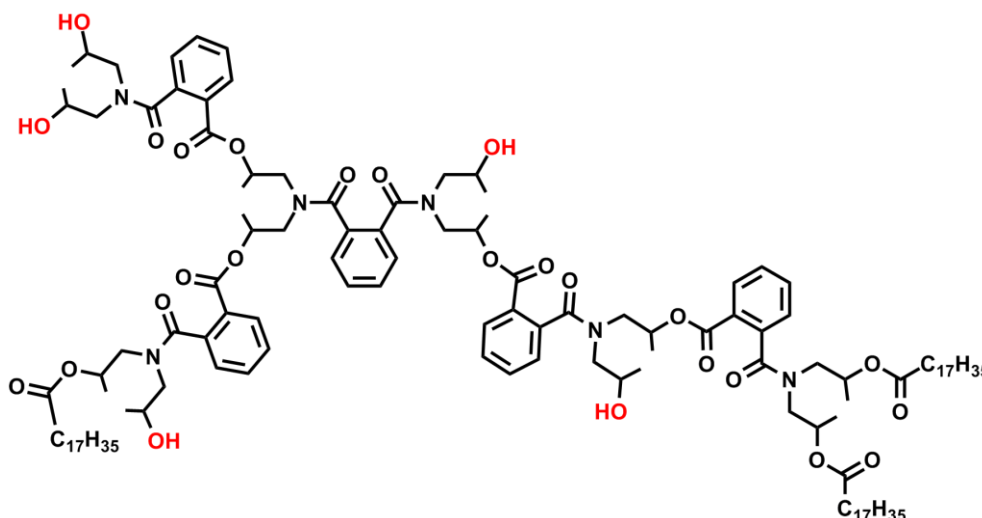
*Also soluble in alcohols, aromatic and chlorinated hydrocarbons

Octanol/Water Coefficient : Not determined

Flash Point : Not determined

Vapour Pressure : < 1 hPA (20 °C)

Typical Idealized Structure



Stability and Reactivity

Stability	:	Thermally stable to 200°C for at least 5 minutes
Thermal decomposition	:	Hazardous thermal decomposition producing toxic nitrogen oxide, carbon monoxide and carbon dioxide
Conditions to be avoided	:	Unknown
Incompatibility	:	No incompatibilities known

Toxicological Information

Acute Toxicity	:	ORAL (LD ₅₀): >2000 mg/kg [rat] 96h-LC50 > 100 mg/l [zebra fish]
Chronic Toxicity	:	None expected

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Primary irritant effect

- On the skin** : In Rabbit studies, very slight erythema and oedema which resolved within 24 hours
- Sensitization** : Sensitization rate 0% found in guinea pigs.

Other information

- Mutagenicity** : Found to be not mutagenic in *Salmonella Typhimurium* reverse mutation assay
- Reproductive Toxicity** : None expected

Ecological Information

- Mobility** : Low vapour pressure, insoluble in water
- Persistence and degradability** : Not determined
- Bio-accumulation** : None expected based on studies with analogous compounds
- Ecotoxicity** : This hybrane product is non-toxic for fish (zebra fish) and based on studies with analogous compounds is expected to be non-toxic for aquatic organisms (*Daphnia Magna*).

Disposal Consideration

- Recommendation** : Disposal must be made according to official regulations
- Methods of Disposal** : Dispose by combustion in an incinerator for chemical waste

Transport Information

- *Non Regulated
- UN Identification No.** : Not Applicable

Regulatory Information

- *Non-dangerous according to EC classification
- USA** : NOT listed on the Toxic Substances Control Act (TSCA)

Other information

If you require any further information concerning this or any of our other products then please contact us at the address given above or visit our website at <http://www.polymerfactory.com>