

Material Safety Data Sheet

Trade name: SUPERPLAST TOPCOAT

Product no: 6D973-7035-R

Version: BUS021510

Date of printing: 02.25.2010

1.) Identification of the substance/preparation and of the company/undertaking

Identification of the substance or preparation

Trade name

SUPERPLAST TOPCOAT

Company/undertaking identification

Address

Bergolin GmbH & Co. KG

Kiepelbergstr. 14

27721 Ritterhude

Telephone no. +49 (0) 4292 998 0

Fax no. +49 (0) 4292 998 43

Emergency telephone

011 49 700 24 112112 (BGR) (24h)

msds@bergolin.de

2.) Hazards identification

Immediate hazards

General

WARNING

Flammable liquid and vapor.

May cause allergic skin reaction.

May cause eye irritation.

May cause respiratory tract irritation.

Prolonged or repeated contact may dry skin and cause irritation.

Potential environmental effects

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Potential Health Effects

Eye

May cause eye irritation.

Skin

May cause skin sensitization, an allergic reaction, which becomes evident on re-exposure to this material. Prolonged or repeated contact can result in de-fatting and drying of the skin which may result in skin irritation and dermatitis (rash).

Inhalation

May cause respiratory tract irritation.

Ingestion

Ingestion of this product may result in central nervous system effects including headache, sleepiness, dizziness, slurred speech and blurred vision. The products contain low viscosity components (hydrocarbon mixtures) which present a health hazard by being aspirated into the lungs when swallowed. Due to the high viscosity of the product itself this health hazard is minimized.

Carcinogenicity

None of the components present in this material at concentrations equal or greater than 0.1% is listed by IARC, NTP, OSHA or ACHIG as a carcinogen.

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3. Composition/information on ingredients

Chemical characterization

Mixture (preparation)

Hazardous ingredients

BARIUM SULPHATE

CAS no. 7727-43-7

TITANIUM DIOXIDE

Cas no. 13463-67-7

2- METHOXY-1-METHYLENTHYL ACETATE

CAS no. 108-65-6

SOLVENT NAPHTHA (PETROLEUM), LIGHT AROM.

CAS no. 64742-95-6

4. First aid measures

General information

In all cases of doubt, or when sickness symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. Remove soiled or soaked clothing immediately.

After inhalation

Remove to fresh air, keep patient warm and at rest. Irregular breathing/no breathing: artificial respiration. If unconscious, place in recovery position and seek medical advice.

After skin contact

Remove contaminated clothing immediately and dispose of safely. Wash skin thoroughly with soap and water or use recognized skin cleaner. Do NOT use solvents or thinners!

After eye contact

Remove contact lenses, irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart and seek medical advice.

After ingestion.

Do not induce vomiting. Keep at rest. Call a doctor.

5. Firefighting measures

Suitable extinguishing media

Alcohol resistant foam, CO₂, powders, water spray.

Extinguishing media that must not be used for safety reasons

Full water jet.

Special exposure hazards arising from the substance or preparation itself, its combustion products or from resulting gases

Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.

Special protective equipment for firefighting

As in any fire, wear self-contained breathing apparatus pressure- demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Other information

Cool endangered containers with water in case of fire. Do not allow run-off from firefighting to enter drains or water courses.

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6. Accidental release measures

Personal precautions

Exclude sources of ignition and ventilate the area. Do not inhale vapors. Refer to protective measures listed in sections 7 and 8.

Environmental precautions

Do not allow to enter drains. If the product contaminates lakes, rivers or sewage, inform appropriate authorities in accordance with local regulations.

Methods for cleaning up/taking up

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in suitable container for disposal.

7.) Handling and storage

Handling

Advice on safe handling

Prevent the creation of flammable or explosive concentrations of vapor in air and avoid vapor concentrations higher than the occupational exposure limits. The product should only be used in areas from which all pilot lights and other sources of ignition have been excluded. Comply with the health and safety at work laws. Do not eat or drink during work - no smoking. Avoid contact with eyes, skin, and clothing.

Advice on protection against fire and explosion

Preparation may charge electrostatically: always use properly installed grounding cables when transferring from one container to another. Operators should wear anti-static footwear and clothing. Non sparking tools should be used. Vapors are heavier than air and may spread along floors. Vapors may form explosive mixtures with air.

Storage

Requirements for storage rooms and vessels

Electrical equipment should be protected to the appropriate standard. Floors should be the conductive type. Keep container tightly closed. Never use pressure to empty: container is not a pressure vessel. No smoking. Prevent unauthorized access. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Hints on storage assembly

Keep away from oxidizing agents, from strongly alkaline and strongly acid materials.

Further information on storage conditions

Always keep in containers of same material as the original one. See also instructions on the label. Avoid heating and direct sunlight. Keep container dry in a cool, well-ventilated place.

Recommended storage temperature.

Value 59 - 86 °F

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8.) Exposure controls/personal protection

Exposure limit value

BARIUM SULPHATE

CAS no. 7727-43-7

EC no. 231-784-4

ACGIH

Barium sulfate

TWA 10 mg/m³

LIMITS FOR AIR CONTAMINANTS (OSHA)

Barium sulfate

Total dust

TWA 15 mg/m³

LIMITS FOR AIR CONTAMINANTS (OSHA)

Barium sulfate

Respirable fraction

TWA 5 mg/m³

TITANIUM DIOXIDE

CAS no. 13463-67-7

EC no. 236-675-5

ACGIH

Titanium dioxide

TWA 10 mg/m³

ACGIH

LIMITS FOR AIR CONTAMINANTS (OSHA)

Titanium dioxide

Total dust

TWA 15 mg/m³

Exposure controls

Occupational exposure controls

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapor below the OEL, suitable respiratory protection must be worn.

Personal protective equipment

Respiratory protection

When spraying: Positive pressure air supplied respirator required (MHSA/NIOSH approved).

For applications other than spraying: In well ventilated areas, air supplied respirators could be replaced by properly fitted combination organic vapor/particulate NIOSH/MHSA approved respirators.

Wear an approved NIOSH/MHSA dust respirator when sanding or abrading the cured and dried film.

Hand protection

The following glove(s) should be used for protection :

Appropriate Material butyl rubber

Eye Protection

Use chemical splash goggles and face shield (ANSI Z87.1 or approved equivalent).

Skin protection

Wear clothing appropriate for handling chemicals. All parts of the body should be washed with soap and water after contact.

General protective and hygiene measures

Avoid product contact with skin, eyes and clothing. Avoid the inhalation of dust when sanding or abrading the cured film.

Wash hands with soap and water after use.

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9.) Physical and chemical properties

General information

Form liquid
Color according product name
Odor characteristic

Important health, safety and environmental information

Changes in physical state

Value no data available

Flash point

Value 100 °F

Ignition temperature

Value 599 °F

Explosion limits

Upper explosion limit 11.3 % vol

Lower explosion limit 1.1 % vol

Vapor pressure

Value < 0.0001 mbar

Reference temperature 68 ° F

Density

Value 11.27 lbs/gallon

Reference temperature 68 °F

Viscosity

Type Efflux time

Value 60 sec

Method DIN cup 4 mm

Reference temperature 68 °F

Solubility in water

Remarks insoluble

Solvent content 30 % vol

Solvent separation test

Value < 3 % vol

10. Stability and reactivity

Conditions to avoid

Stable under recommended storage and handling conditions (See Section 7).

Materials to avoid

Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

Hazardous decomposition products

When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen.

Thermal decomposition

Remarks No decomposition if used as prescribed.

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11.) Toxicological information

Experience in practice

Exposure of vapor concentration in excess of the stated OEL's may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue muscular weakness, drowsiness and in extreme cases, loss of consciousness. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin. The liquid splashed in the eyes may cause irritation and reversible damage.

Other information

Product specific toxicological data are not known.

12.) Ecological information

Other adverse effects

Ecological data are not available.

Do not discharge product unmonitored into the environment.

13.) Disposal considerations

Product

Dispose in accordance with federal, state and local regulations.

14.) Transport information

US DOT

Class	3
Packaging group	III
Label	FLAMMABLE LIQUID
UN/NA number	UN 1263
Technical name	Paint

Marine transport IMDG

Class	3
Packaging group	III
UN number	1263
Proper shipping name	Paint
Danger releasing substance	Solvent Naphtha
EmS	F-E, S-E
MARPOL	P
Label	3
Remarks	Containers with a capacity <=30 ltrs are not subjected to IMDG Regulations, chapter 4.1, 5.2 and 6.1 (see IMDG-Code 2.3.2.5)

Air transport ICAQ/IATA

Class	3
Packaging group	III
UN number	1263
Proper shipping name	Paint
Label	3

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15.) Regulatory information

Regulations

US Federal Regulation

TSCA (Toxic Substances Control Act)

All of the components of this product are either listed on the TSCA Inventory or are not subject to the notification requirements (exempt).

Clean Water Act (CWA)

None of the ingredients is listed.

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200)

Following ingredients are Hazardous by definition of Hazard Communication Standard:

CAS-No. 64742-95-6; 108-65-6; 7727-43-7; 13463-67-7

SARA Section 302 (RQ):

None of the ingredients is listed.

SARA HAZARD CATEGORY (Section 311/312)

Fire, Health Hazards.

SARA Section 313

None of the ingredients is listed.

HAPS (Hazardous Air Pollutants) according to Clean Air Act

None of the ingredients is listed.

State Regulations

California Proposition 65

None of the ingredients is listed

Pennsylvania HAZARDOUS SUBSTANCE LIST

Following ingredients are listed:

CAS-No 1330-20-7 <1%; 7727-43-7: 13463-67-7; 7631-86-9

New Jersey Worker and Community Right to Know Act

Following ingredients are listed:

CAS-No. 1330-20-7 < 1%; 13463-67-7

Other international listings

IARC

None of the ingredients is listed in group 1, 2A or 2B.

Volatile organic compounds (VOC)

Pound/gallon 2.98

16.) Other information

HMIS Classification

Health 2

Flammability: 2

Reactivity 1

PPE G

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NFPA Rating

Health	2
Fire Hazard	2
Reactivity	1

Other information

Abbreviations:

ACGIH American Conference of Governmental Hygienics

CAS Chemical Abstracts Service

HAPS Hazardous Air Pollutants

HMIS Hazardous Material Identification System

IARC International Agency for Research on Cancer

IDLH Immediate Dangerous to Life and Health

LEL Lower Explosion Limit

NTP National Toxicology Program

OEL Occupational Exposure Limit

OSHA Occupational Safety and Health Administration

PEL Permissible Exposure Limit

PPE Personal Protection Equipment

SARA Superfund Amendments and Reauthorization Act

STEL Short-Term Exposure Level (15 minutes)

TWA Time-Weighted Average (8 hours)

UEL Upper Explosion Limit

VOC Volatile Organic Compounds

WEEL Workplace Environmental Exposure Level

This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.