

SAFETY DATA SHEET

according to Regulation (EU) No. 1907/2006



Lustre.Brush

LU 34

specification 2030036
Version 1.4
material No. 1172471

Revision date 21.09.2007
Print Date 28.04.2009
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1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product information

material No. : 1172471

Trade name : LU 34
Lustre.Brush
Silver Iris

Company : Ferro Magmalor GmbH
Furtweg 23
04680 Colditz

Telephone : +49 34381 8370
Telefax : +49 34381 83768

Emergency telephone : +49 (0)69 30 56 418
E-mail address : braeunlingi@ferro.com

Use of the Substance/Preparation : Ceramic coating suited for firing, for glass and ceramics.

2. HAZARDS IDENTIFICATION

Flammable.
Harmful by inhalation, in contact with skin and if swallowed.
Irritating to eyes and skin.
May cause sensitization by skin contact.
Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature

Product contains:
salt of organic acids/bases
oil/terpene/balsame/wax/resin
hydrocarbon, aliphatic
natural polymer, modified

Information on ingredients/Hazardous components

• turpentine, oil		Concentration	30% - 50%
CAS-No.	8006-64-2	EC-No.	232-350-7
Symbol(s)	Xn, N	R-phrases(s)	R10, R20/21/22, R36/38, R43, R65, R51/53
• rosin		Concentration	20% - 30%
CAS-No.	8050-09-7	EC-No.	232-475-7
Symbol(s)	Xi	R-phrases(s)	R43
• dipentene		Concentration	5% - 7%
CAS-No.	138-86-3	EC-No.	205-341-0
Symbol(s)	Xi, N	R-phrases(s)	R10, R38, R43, R50/53
• titanium tetrabutanolate		Concentration	5% - 7%
CAS-No.	5593-70-4	EC-No.	227-006-8

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Symbol(s)	Xi	R-phrases	R10, R36/38
• terpineol		Concentration	1% - 3%
CAS-No.	8000-41-7	EC-No.	232-268-1
Symbol(s)	Xi	R-phrases	R38

See chapter 16 for text of risk phrases

4. FIRST AID MEASURES

General advice

Remove contaminated or saturated clothing.

Bring affected person out of danger area. Place person on side in stable position if unconscious.

Employ mouth-to-mouth resuscitation if breathing ceases.

Inhalation

Take affected persons out into the fresh air.

Skin contact

Wash off immediately with soap and plenty of water.

Remove contaminated or saturated clothing.

Eye contact

With eye held open, thoroughly rinse immediately with plenty of water for at least 10 minutes.

Ingestion

Make affected person vomit but only if he is fully conscious. Have patient rinse out mouth with water.

If symptoms persist, call a physician.

Have patient drink plenty of water in small sips.

Notes to physician

No own experience available.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Water (spray jet), mist, special quenching powder, quenching foam (use large amount of foam as it will be partially destroyed), carbon dioxide.

Extinguishing media which shall not be used for safety reasons

High volume water jet

Specific hazards during fire fighting

When heated, formation of explosive vapour/air mixtures.

May be released in case of fire: flammable smouldering gases.

Special protective equipment for fire-fighters

Employ protective equipment commonly used in the event of fire.

Further information

In case of fire, remove the endangered containers and bring to a safe place, if this can be done safely.

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Water used to extinguish fire should not enter drainage systems, soil, or stretches of water. Ensure there are sufficient retaining facilities for water used to extinguish fire. Contaminated fire-extinguishing water must be disposed of in accordance with the regulations issued by the appropriate local authorities.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Wear personal protective equipment; see section 8.
Remove all sources of ignition.
Ensure adequate ventilation.

Environmental precautions

Avoid penetration into drainage system or in rooms situated at a lower level because of danger of explosion.
Prevent penetration into soil, stretches of water and drainage systems.

Methods for cleaning up

Absorb with liquid-binding material (e.g. inert absorbent kieselguhruniversal binder) pick up.

Additional advice

Dispose of contaminated material as waste in accordance with section 13.

7. HANDLING AND STORAGE

Handling

Safe handling advice

Do not breathe in vapours or aerosols.
Keep away from sources of ignition - No smoking.

Advice on protection against fire and explosion

Take measures to prevent the build up of electrostatic charge.
Highly volatile substances may be released during processing; therefore avoid sources of ignition.

Storage

Requirements for storage areas and containers

Fumes may be released in closed storage rooms or during processing. Store in a dry place at room temperature.

Further information

Product is water-pollutive. Observe the national and local regulations concerning handling and storage.
Storage must be in accordance with the BetrSichV (Germany).

Advice on common storage

Keep away from tobacco products.
Keep away from food, drink and animal feedingstuffs.

German storage class

3 A (Classification by producer in accordance with VCI scheme)

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Components with workplace control parameters

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• turpentine, oil

CAS-No.	8006-64-2	EC-No.	232-350-7
Control parameters	100,00 ml/m3 560,00 mg/m3 remarks: H		AGW (Germany)

Engineering measures

If possible, use material transfer/filling, metering and blending plants that are closed.
Take precautionary measures against static discharges. Earthing of equipment.
Eventual aspiration in case of solvent fumes. Technical protection measures have always priority over personal protection equipment.

Occupational exposure controls

Personal protective equipment

Respiratory protection

If workplace exposure limit is exceeded apply Respirator with brown A-type filter.
Ensure suitable suction/aeration at the work place and with operational machinery.

Hand protection

Wear protective gloves made of the following materials: nitrile rubber.

Eye protection

wear basket-shaped glasses or safety goggles with side-shields.

Skin and body protection

When handling larger quantities: rubber apron, plastic apron.
Safety shoes

Hygiene measures

Wash hands before breaks and immediately after handling the product.
Avoid contact with skin, eyes and clothing.

Protective measures

Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form	liquid
Colour	colourless
Odour	characteristic

Safety data

physical state	liquid	
Flash point	30 °C	calculated
Lower explosion limit	0,7 %(V)	
Upper explosion limit	12 %(V)	
Density	ca. 1,0 g/cm ³	(20 °C)

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Water solubility	insoluble
Viscosity, dynamic	ca. 20 mPa.s (23 °C)
Viscosity, kinematic	20 mm ² /s (23 °C) calculated

10. STABILITY AND REACTIVITY

Conditions to avoid	No dangerous reaction known under conditions of normal use.
Materials to avoid	Strong oxidizing agents
Hazardous decomposition products	none known

11. TOXICOLOGICAL INFORMATION

Acute toxicity	Harmful if swallowed. Harmful by inhalation. Harmful in contact with skin.
Skin irritation	Frequent and continual skin contact can cause skin reaction (skin irritation / skin sensitization). In the case of skin irritation or allergic reactions see a physician. Irritating to eyes and skin.
Eye irritation	Vapour during processing may be irritating to the respiratory tract and to the eyes.
Sensitisation	Causes sensitization.

No results of animal experiments with the product available.

Acute oral toxicity

titanium tetrabutanolate	LD50 rat: 3.122,00 mg/kg
turpentine, oil	LD50 rat: 5.760,00 mg/kg
terpineol	LD50 rat: 4.300,00 mg/kg

Acute dermal toxicity

terpineol	LD50 rabbit: > 3.000,00 mg/kg
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12. ECOLOGICAL INFORMATION

Persistence and degradability

Biodegradability	no data available
Physico-chemical removability	no data available

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Ecotoxicity effects

Specific information for this product is not available.

Toxicity to daphnia

dipentene

EC50 Daphnia: 70 mg/l / 48 h

Further information on ecology

Further Information

Do not allow entrance in sewage water, soil or stretches of water.
May cause long-term adverse effects in the aquatic environment.
Toxic to aquatic organisms.

13. DISPOSAL CONSIDERATIONS

Product

Do not dispose of waste into sewer.
Dispose of as special waste in compliance with local and national regulations.
Do not contaminate ponds, waterways or ditches with chemical or used container.
In agreement with the waste code must be determined regional waste disposal authority or company.

Uncleaned packaging

If there is product residue in the emptied container, follow directions for handling on the container's label.
Dispose of as unused product.

14. TRANSPORT INFORMATION

Land transport ADR/RID/GGVSE (Germany)

Class 3
Code F1
Packaging group III
orange warning plate 30 / 1263
Description of the goods (Technical name)
1263 PAINT RELATED MATERIAL (SP 640E)

Sea transport IMDG-Code/GGVSee

Class 3
UN-No 1263
Packaging group III
Proper technical name (Proper shipping name)
PAINT RELATED MATERIAL

Air transport ICAO-TI/IATA-DGR

Class 3
UN-No 1263
Packaging group III
Proper technical name (Proper shipping name)
Paint related material

15. REGULATORY INFORMATION

Labelling according to EC Directives

statutory basis/list 1999/45/EC

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Page **7 / 8****Hazard-defining component(s)**

- turpentine, oil
- rosin
- dipentene

Symbol(s)	Xn N	Harmful Dangerous for the environment
R-phrases(s)	R10 R20/21/22 R36/38 R43 R51/53	Flammable. Harmful by inhalation, in contact with skin and if swallowed. Irritating to eyes and skin. May cause sensitization by skin contact. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
S-phrases(s)	S23 S26 S36/37 S57 S60	Do not breathe vapour. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing and gloves. Use appropriate container to avoid environmental contamination. This material and its container must be disposed of as hazardous waste.
Major Accident Hazard Legislation	96/82/EC listing: listing:	Update: 2003 Flammable. (6) Dangerous for the environment (9b)

National legislation (Germany)Water contaminating class (Germany) WGK 2 water endangering
Update: VWWWS A4

TA Luft List (Germany)	Class	I	II	III	IV
	organic	48,8 %	0,0 %	0,0 %	
	carcinogenic	0,0 %	0,0 %	0,0 %	
	inorganic-dust-like	0,0 %	0,0 %	0,0 %	
	inorganic-gaseous	0,0 %	0,0 %	0,0 %	0,0 %

Other regulations The employment limitations under the regulations to the protection from hazardous materials of pregnant women and young mothers guideline and the protection of young persons act are to be observed.

16. OTHER INFORMATION**Risk phrase (R phrase) texts**

- turpentine, oil

R10 Flammable.
R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

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R36/38

Irritating to eyes and skin.

R43

May cause sensitization by skin contact.

R65

Harmful: may cause lung damage if swallowed.

R51/53

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

- **rosin**

R43

May cause sensitization by skin contact.

- **dipentene**

R10

Flammable.

R38

Irritating to skin.

R43

May cause sensitization by skin contact.

R50/53

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

- **titanium tetrabutanolate**

R10

Flammable.

R36/38

Irritating to eyes and skin.

- **terpineol**

R38

Irritating to skin.

Further information

Data sheet producing department:

Ferro US-PS Telephone: +49 (0)69 27116-605

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

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