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MATERIAL SAFETY DATA SHEET

QuickLine Relining Material

Revision Date: June - 2000

Product: QuickLine Relining Material
Description: **Addition Curing Silicone Material**
Chem Fam: **Preparation of vinyl dimethyl polysiloxane, platinum complexes and silica.**
Product No.: **220180-220181**

SECTION II - HAZARDOUS INGREDIENTS

None, if handled according to directions.
No labeling of hazardous ingredients required.

SECTION III - PHYSICAL DATA

Appearance: Pasty or viscous liquid in different colorations.
Odor: Weak or fruity
pH-value: not applicable
Changes in physical state:
Boiling point: > 300°C
Decomposition temperature: ca. 100°C
Flashpoint: > 130°C
Ignition temperature: > 400°C
Explosion properties: not established
Vapor pressure: < 100mbar
Rel. vapor density: >1
Density: 1.2 - 1.7 g/cm³
Solubility in water: insoluble

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Extinguishing media: Powder, sand, foam, carbon dioxide, and water spray.
Not suitable extinguishing media: direct jet of water

MATERIAL SAFETY DATA SHEET

QuickLine Relining Material

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SECTION V - FIRST AID MEASURES

In case of inhalation:	Not applicable.
In case of skin contact:	Wash with soap and water.
In case of eye contact:	Immediately rinse with plenty of water, seek medical advice.
In case of ingestion:	Consult a physician.

SECTION VI - ACCIDENTAL RELEASE MEASURES

Personal precautions:	Wear suitable protective clothing.
Environmental precautions:	Avoid pollution of water and sewage.
Methods of cleaning up:	Take up mechanically, with inert fluid-binding material.

SECTION VII - HANDLING AND STORAGE

Handling:

Technical measures:	Keep container tightly closed.
Safe handling advice:	Wear suitable gloves. Avoid contact with eyes.

Storage:

Technical measures:	No special precautions necessary.
Storage conditions:	Keep container tightly closed.
Recommended packaging material:	Container of glass or metal or solvent-stable plastics.

SECTION VIII - EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures:

No special precautions necessary.

Personal protective equipment:

Respiratory protection:	Not volatile vapors.
Hand and skin protection:	Rubber gloves
Eye protection:	Goggles
Hygiene measures:	When using do not eat or drink.

SECTION IX - STABILITY AND REACTIVITY

Thermal decomposition:	None, if handled and stored according to directions. At ca. 100°C in presence of air evolution of small amounts of formaldehyde by oxidative degradation.
Hazardous reactions:	In presence of water evolution of small amounts of hydrogen possible.
Conditions to avoid:	Heat.
Hazardous decomposition products:	Formaldehyde, hydrogen

MATERIAL SAFETY DATA SHEET

QuickLine Relining Material

Revision Date: June - 2000

SECTION X - TOXICOLOGICAL INFORMATION

Acute oral toxicity: LD50 (Rate) > 5000 mg/kg
Irritation of skin: Not irritating.
Irritation of eye: Not irritating (rabbit, 24h). On prolonged exposure irritation possible.

SECTION XI - ECOLOGICAL INFORMATION

Do not discharge into drains or the environment, dispose to an authorized waste collection point.
Persistence and degradability: No data available for the preparation. Partially degradable (components).
Ecotoxicity: Fish toxicity LC50 > 200 mg/l/96h

SECTION XII - DISPOSAL CONSIDERATIONS

Waste from residues: Dispose to an authorized waste collection point. Use proper landfill disposal or incineration in accordance with local, state and federal regulations

SECTION XIII - TRANSPORT INFORMATION

Additional Information: Not dangerous transport goods.

SECTION XIV - REGULATORY INFORMATION

Labeling according international regulations: No labeling

SECTION XV - OTHER INFORMATION

None

The data given here is based on current knowledge and experience. The data does not signify any warranty with regard to the product's properties.



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MATERIAL SAFETY DATA SHEET

QuickLine Varnish

Revision Date: June 2000

Product: QuickLine Varnish
Description: AV Soft Relining Silicone, Varnish
Chem Fam: Preparation of vinyl dimerhydropolysiloxane, platinum complexes and silica
Product No.: 220182

SECTION II - HAZARDOUS INGREDIENTS

None, if handled according to directions.
No labeling of hazardous ingredients required

SECTION III - PHYSICAL DATA

Appearance: Pasty or viscous liquid in different colorations
Odor: Weak or fruity
pH-value: not applicable
Changes in physical state:
Boiling Temperature: > 300°C
Decomposition temperature: ca. 100 °C
Flashpoint: >130°C
Ignition temperature: >400°C
Explosion properties: not established
Vapor pressure: <100 mbar
Rel. vapor density: >1
Density: 1.2-1.7g/cm³
Solubility in water: insoluble

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Extinguishing media: Powder, sand, foam, carbon dioxide, and water spray.
Not suitable extinguishing media: direct jet of water

SECTION V - FIRST AID MEASURES

In case of inhalation: Not applicable
In case of skin contact: Wash with soap and water.
In case of eye contact: Immediately rinse with plenty of water, seek medical advice.
In case of ingestion: Consult a physician

MATERIAL SAFETY DATA SHEET

QuickLine Varnish

Revision date: June 2000

SECTION VI - ACCIDENTAL RELEASE MEASURES

Personal precautions: Wear suitable protective clothing.
Environmental precautions: Avoid pollution of water and sewage.
Methods of cleaning up: Take up mechanically, with inert fluid-binding material

SECTION VII - HANDLING AND STORAGE

Handling:

Technical measures: Keep container tightly closed.
Safe handling advice: Wear suitable gloves. Avoid contact with eyes.

Storage:

Technical measures: No special precautions necessary
Storage conditions: Keep container tightly closed.
Recommended packaging material: Container of glass, metal or solvent-stable plastics.

SECTION VIII - EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures: No special precautions necessary

Personal protective equipment:

Respiratory protection: Non-volatile vapors
Hand and skin protection: Rubber gloves
Eye protection: Goggles
Hygiene measures: When using do not eat or drink.

SECTION IX - STABILITY AND REACTIVITY

Thermal decomposition: None, if handled and stored according to directions.
at ca.100°C in presence of air evolution of small amounts of formaldehyde by oxidation degradation.
Hazardous reactions: In presence of water evolution of small amounts of hydrogen possible
Conditions to avoid: Heat
Hazardous decomposition products: Formaldehyde, hydrogen

SECTION X - TOXICOLOGICAL INFORMATION

Acute oral toxicity: LD₅₀ (Rat) > 5000 mg/kg
Irritation of skin: Not irritating
Irritation of eye: Not irritating (rabbit, 24h). On prolonged exposure irritation possible

SECTION XI - ECOLOGICAL INFORMATION

Do not discharge into drains or the environment, dispose to an authorized waste collection point
Persistence and degradability: No data available for the preparation. Partially degradable
(components)

Ecotoxicity: Fish toxicity $LC_{50} > 200 \text{mg}/1/96\text{h}$

MATERIAL SAFETY DATA SHEET

QuickLine Varnish

Revision date: June 2000

SECTION XII - DISPOSAL CONSIDERATIONS

Waste from residues: Dispose to an authorized waste collection point. Use proper landfill disposal or incineration in accordance with local, state and federal regulations

SECTION XIII - TRANSPORT INFORMATION

Additional Information: Not dangerous cargo

SECTION XIV - REGULATORY INFORMATION

Labeling according international regulations: No labeling

SECTION XV - OTHER INFORMATION

None

The data given here is based on current knowledge and experience. The data does not signify any warranty with regard to the product's properties



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QuickLine Primer

Revision Date: June 2000

Product: QuickLine Primer
Description: AV Soft Relining Primer
Chem Fam: Solution of resin in ethyl acetate. Contains ethyl acetate CAS-No. 141-78-6
Product No.: 220183

SECTION II - HAZARDOUS INGREDIENTS

Flammable

In case of inhalation: High concentration of vapor may irritate respiratory system, may cause nausea and dimming of consciousness
In case of skin contact: Degreases skin
In case of eye contact: Irritating to eyes
In case of ingestion: Irritating to mucous membrane

SECTION III - PHYSICAL DATA

Appearance: Yellowish liquid
Odor: Characteristic
pH-value: Neutral
Changes in physical state:
Boiling Temperature: ca. 80°C
Flashpoint: -4°C
Ignition temperature: >460°C
Explosion properties: 1L: ca. 2Vol %; uL: ca. 11.5 Vol%
Vapor pressure: ca.100 mbar/ 20°C
Rel. vapor density: >1
Solubility in water: ca. 80 g/l

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

May form explosive vapor-air mixture

Extinguishing media: Powder, sand, foam, carbon dioxide, and water spray.
Not suitable extinguishing media: direct jet of water

SECTION V - FIRST AID MEASURES

In case of inhalation:	Take patient to open air. Lit sit down calmly.
In case of skin contact:	Wash with soap and water.
In case of eye contact:	Immediately rinse with plenty of water, seek medical advice.
In case of ingestion:	Consult a physician

MATERIAL SAFETY DATA SHEET

QuickLine Primer

Revision date: June 2000

SECTION VI - ACCIDENTAL RELEASE MEASURES

Personal precautions:	Remove sources of ignition. Local exhaust
Environmental precautions:	Do not empty into drains.
Methods of cleaning up:	Take up mechanically, with inert fluid-binding material

SECTION VII - HANDLING AND STORAGE

Handling:

Technical measures:	Keep away from sources of ignition - No Smoking. Take precautionary measures against static discharges. Use explosive protective devices. Keep container in well-ventilated place.
Safe handling advice:	Wear suitable gloves. Avoid contact with eyes.

Storage:

Technical measures:	Keep container in well-ventilated place.
Storage conditions:	Keep container tightly closed. Keep in a cool place
Recommended packaging material:	Container of glass or metal
Not suitable packaging material:	Vapor-permeable plastics

SECTION VIII - EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures:

Use only in well ventilated areas
Limit values: MAK-threshold 400ppm (ethyl acetate)

Personal protective equipment:

Respiratory protection:	Do not breath vapors, Filter mask type A (if TLV is exceeded)
Hand and skin protection:	Rubber gloves
Eye protection:	Goggles
Hygiene measures:	When using do not eat or drink.

SECTION IX - STABILITY AND REACTIVITY

Thermal decomposition:	at ca. 80°C (boiling).
Hazardous reactions:	None, if handled and stored according to directions
Conditions to avoid:	Heat
Materials to avoid:	Oxidizing agents, peroxide, acids
Hazardous decomposition products:	in case of fire, acrid fumes

SECTION X - TOXICOLOGICAL INFORMATION

Acute oral toxicity: LD₅₀ (Rat) > 5000 mg/kg
Irritation of skin: Irritating on prolonged exposure
Irritation of eye: Irritating
Specific effects: May act irritating after evaporation of solvent

MATERIAL SAFETY DATA SHEET

QuickLine Primer

Revision date: June 2000

SECTION XI - ECOLOGICAL INFORMATION

Mobility: No data available
Persistence and degradability: Easily degradable (ethyl acetate)
Ecotoxicity: **Fish toxicity LC₅₀ > 333 mg/l/48h (ethyl acetate)**

SECTION XII - DISPOSAL CONSIDERATIONS

Waste from residues: Dispose to an authorized waste collection point. Use proper landfill disposal or incineration in accordance with local, state and federal regulations

SECTION XIII - TRANSPORT INFORMATION

Regulations for Land (road/railroad)
CGVS: Class 3, No 3b
ADR: Class 3, No 3b
GGVE: Class 3, No 3b
RID: Class 3, No 3b

Regulations for Sea
IMDG/GGV See code: Class 3.2
EmS: 3-07
MFAG: 330

Regulations for Air:
ICAO/IATA-DGR: Class 3

Un-Number: 1173

SECTION XIV - REGULATORY INFORMATION

Labeling according international regulations: F, flammable

Symbols of danger: Flame-symbol

R-phrases: 11

Highly Flammable

S-phrases: 16-23-26-29-33

Keep away from sources of ignition - No smoking

Do not breathe vapor

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

Do not empty into drains

Take precautionary measures against static discharge

VbF-class A1

Waste: EWC-Key 070104 (organic solvent)

SECTION XV - OTHER INFORMATION

None

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