

Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



79098 Gel-Painting Medium by Claude Yvel

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Revised edition: 01.06.2020

Version: 1

Printed: 08.06.2020

1. Identification of the Substance/Mixture and of the Company/Undertaking

1.1. Product Identifier

Product Name: Gel-Painting Medium by Claude Yvel

Article No.: 79098

1.2. Relevant identified Uses of the Substance or Mixture and Uses advised against

Identified uses:

Professional use of paints and pigments.

Uses advised against:

1.3. Details of the Supplier of the Safety Data Sheet (Producer/Importer)

Company: Kremer Pigmente GmbH & Co. KG

Address: Hauptstr. 41-47, 88317 Aichstetten, Germany

Tel./Fax.: Tel +49 7565 914480, Fax +49 7565 1606

Internet: www.kremer-pigmente.com

E-Mail: info@kremer-pigmente.com

Importer: --

1.4. Emergency No.

Emergency No.: +49 7565 914480 (Mon-Fri 8:00 - 17:00)

1.4.2 Poison Center:

2. Hazards Identification

2.1. Classification of the Substance or Mixture

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

*Flammable liquids, hazard category 3
Acute toxicity (oral), hazard category 4
Aspiration hazard, hazard category 1
Acute toxicity (dermal), hazard category 4
Skin irritation, hazard category 2
Skin sensitization, hazard category 1
Eye irritation, hazard category 2
Acute toxicity (inhalation), hazard category 4
Chronic aquatic toxicity, hazard category 2*

H226 Flammable liquid and vapour.

Cat.: 3

H302 Harmful if swallowed.

Cat.: 4

H315 Causes skin irritation.

Cat.: 2

H317 May cause an allergic skin reaction.

Cat.: 1

H351 Suspected of causing cancer.

Cat.: 2

H360 May damage fertility or the unborn child.

Cat.: 1A

May cause harm to breast-fed children.

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H362	
Cat.:	
H373	May cause damage to organs through prolonged or repeated exposure.
Cat.: 2	
H411	Toxic to aquatic life with long lasting effects.
Cat.: 2	

Possible Environmental Effects:

See Section 12.

2.2. Label Elements

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

Hazard designation:



GHS02-2



GHS07



GHS08



GHS09

Signal word:

Danger

Hazard designation:

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H351	Suspected of causing cancer.
H360	May damage fertility or the unborn child.
H362	May cause harm to breast-fed children.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.

Safety designation:

P201	Obtain special instructions before use.
P273	Avoid release to the environment.
P280	Wear protective gloves/ clothing/ eye/ face protection.
P301+P310	If swallowed: Immediately call a poison center or physician.
P331	Do not induce vomiting.
	Store locked up.

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P405

P501

Dispose of contents/ container according to regional, national and international regulations.

Hazardous components for labelling:

*Turpentine, oil
Lead compound*

2.3. Other Hazards

3. Composition/Information on Ingredients

3.1. Substance

3.2. Mixture

Chemical Characterization: Mastic and walnut oil with lead oxide

Information on Components / Hazardous Ingredients:

Turpentine oil (H226-302-304-312-315-317-319-332-411); REACH Reg. No. 01-2119553060-53-0007	20 - 30 %	CAS-Nr: (8006-64-2) EINECS-Nr: 932-349-8 (232-350-7) EC-Nr: 650-002-00-6
Lead monoxide (Repr. 1A, H302-332-351-360-362-372-410); REACH Reg.No. 01-2119531110-62-0014	< 5 %	CAS-Nr: 1317-36-8 EINECS-Nr: 215-267-0 EC-Nr: 082-001-00-6

Additional information:

SVHC (Candidate List of Substances of very High Concern): This product contains a substance in amounts greater than 0.1 % (w/w) listed in the Candidate List according to Article 59 (1, 10) of the REACH Regulation 1907/2006/EC.

4. First Aid Measures

4.1. Description of the First Aid Measures

General information:

*Remove contaminated clothes immediately.
Take person away from hazardous area.
Intoxication symptoms may occur after several hours, therefore a 48 hour medical observation is necessary.
Consult physician.*

After inhalation:

Supply fresh air. If required give artificial respiration. In case of complaints or unconsciousness consult a physician. In case of unconsciousness place patient stable in side position for transportation.

After skin contact:

Wash off with plenty of water and soap. Consult a physician if irritation persists.

After eye contact:

*Rinse open eyes with plenty of water for at least 15 minutes.
Consult physician.*

After ingestion:

Rinse mouth with plenty of water and consult physician.

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Do NOT induce vomiting. Risk of aspiration! Consult physician immediately.

4.2. Most important Symptoms and Effects, both Acute and Delayed

Symptoms:

Swallowing: may be fatal if swallowed and enters the respiratory system.

Can cause allergic reactions.

Effects:

Harmful

4.3. Indication of any Immediate Medical Attention and special Treatment needed

Treatment:

Treat symptomatically.

5. Fire-Fighting Measures

5.1. Extinguishing Media

Suitable extinguishing media:

Foam, CO2, dry extinguishing powder.

Unsuitable extinguishing media:

Water with full jet.

5.2. Special Hazards arising from the Substance or Mixture

Special hazards:

Flammable.

In case of fire: formation of organic crack products and carbon oxides.

Fumes can form an explosive mixture with air.

5.3. Advice for Firefighters

Protective equipment:

Wear self-contained respiratory protective device.

Wear suitable protective clothing.

Further information:

Cool closed containers exposed to fire with water mist.

Collect contaminated extinguishing water and debris separately; avoid contamination of sewage system.

6. Accidental Release Measures

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

Personal precautions:

Wear protective clothing.

Provide adequate ventilation. Keep away from sources of ignition.

Avoid contact with eyes and skin.

Do not inhale aerosol/fumes/vapors.

6.2. Environmental Precautions

Environmental precautions:

Prevent contamination of soils, drains and surface water.

Contact local authorities if product pollutes soil or vegetation.

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6.3. Methods and Material for Containment and Cleaning Up

Methods and material:

Contain with non-flammable absorbent material (e.g. sand, diatomaceous earth, vermiculite) and dispose accordingly. Remove all sources of ignition. Only use anti-static equipped (spark-free) tools.

6.4. Reference to other Sections

Protective clothing, see Section 8.
See Section 13 for information on disposal.

7. Handling and Storage

7.1. Precautions for Safe Handling

Instructions on safe handling:

Avoid contact with eyes and skin.
The usual precautionary measures are to be adhered to when handling chemicals.
Provide good ventilation and/or exhaust at the workplace. Ensure adequate ventilation. Handle and open container with care.

Hygienic measures:

Take off contaminated clothing immediately.
Keep away from foodstuffs and drinks. Do not eat, drink or smoke during work. Wash hands before breaks and at the end of work.
A nearby eyewash facility should be available for emergencies.

7.2. Conditions for Safe Storage, including any Incompatibilities

Storage conditions:

Store the product in the original tightly sealed containers in a dry and cool place.
Protect against heat.
Protect from direct exposure to light.
Do not store together with strong acids and oxidants.
Accessible for authorized persons only.

Requirements for storage areas and containers:

Store in a room with a solvent-proof floor.
Unsuitable container material: plastics can be attacked.

Information on fire and explosion protection:

Do not store together with combustible and self-ignitable products.
Keep away from sources of ignition - do not smoke. Take measures to prevent electrostatic discharge.
Use only explosion protected devices.
Contaminated cleaning rags and cloths, and protective clothing may ignite spontaneously after several hours.

Storage class:

3; Flammable liquids (TRGS 510)

Further Information:

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7.3. Specific End Use(s)

Further information:

No information available.

8. Exposure Controls/Personal Protection

8.1. Parameters to be Controlled

Parameters to be controlled (DE):

Turpentine oil (CAS 8006-64-2): TWA: 8.2 mg/m³, 2 ppm (long-term value); 16.4 mg/m³, 4 ppm (short-term value)

Lead and its compounds: 0.1 mg/m³ (8h)

Parameters to be controlled:

Derived No-Effect Level (DNEL):

Turpentine oil:

161 µg/cm² (worker, skin contact, short-term exposure)

5.98 mg/m³ (worker, inhalation, long-term exposure)

81 µg/cm² (consumer, skin contact, short-term exposure)

0.31 mg/kg bw/d (consumer, swallowing, long-term exposure)

1.06 mg/m³ (consumer, inhalation, long-term exposure - local effects)

Lead, inorganic:

Developmental effect on foetus of pregnant women: 10 µg/dl (long-term exposure - systemic effects)

Predicted No-Effect Concentration (PNEC):

Turpentine oil (CAS 8006-64-2):

Fresh water: 8.8 µg/l

Sea water: 0.88 µg/l

Fresh water sediment: 2.27 mg/kg dw

Sea water sediment: 0.227 mg/kg dw

Oral (secondary poisoning): 1.35 mg/kg (feed)

Sewage treatment system (STP): 6.6 mg/l

Soil: 0.45 mg/kg

Lead, inorganic:

Fresh water: 3.1 µg/l

Sea water: 3.5 µg/l

Fresh water sediment: 174 mg/kg

Sea water sediment: 164 mg/kg

Soil: 212 mg/kg

Sewage treatment system (STP): 100 µg/l

Additional Information:

Lead, inorganic:

Biological limits: EU: 70 µg/dl; DE: 40 µg/dl, 30 µg/dl (women below 45 years); GB: 60 µg/dl, 30 µg/dl (women of childbearing age); FR: 40 µg/dl, 30 µg/dl (women of childbearing age).

8.2. Exposure Controls

Technical protective measures:

Ensure adequate ventilation, especially in confined areas.

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Facilities storing or utilizing this material should be equipped with an eyewash facility.

Personal Protection

General protective measures:

Remove contaminated clothing immediately.

Do not inhale gas/fumes/vapor/aerosol.

Keep away from foodstuffs and drinks. Do not eat, drink or smoke during work. Wash hands before breaks and at the end of work.

Respiratory protection:

Respiratory equipment required in case of insufficient ventilation, filter type A.

Hand protection:

Protective gloves

The manufacturer's directions for use should be observed because of the great diversity of types.

Protective glove material:

Nitrile rubber (> 480 min, 0.11 mm).

Eye protection:

Tightly fitting safety goggles (EN 166).

Body protection:

Protective clothing.

Environmental precautions:

Prevent contamination of open water ways and sewage system. Avoid contamination of ground water.

Contact local authorities if large spillages cannot be contained.

9. Physical and Chemical Properties

9.1. Information on Basic Physical and Chemical Properties

Form: liquid

Color: brown

Odor: like turpentine

Odor threshold: No information available.

pH-Value: not applicable

Melting temperature: not applicable

Boiling temperature: not available

Flash point: 36°C

Evaporation rate: not determined

Flammability (solid, gas):

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not available

Upper explosion limit:

not determined

Lower explosion limit:

not determined

Vapor pressure:

not determined

Vapor density:

No information available.

Density:

not applicable

Solubility in water:

insoluble

Coefficient of variation (n-Octanol/Water):

no information available

Auto-ignition temperature:

No information available.

Decomposition temperature:

No data available.

Viscosity, dynamic:

not determined

Explosive properties:

not available

Oxidizing properties:

No information available.

Bulk density:

not determined

9.2. Further Information

Solubility in solvents:

Viscosity, kinematic:

Burning class:

Solvent content:

Solid content:

Particle size:

Other information:

No further information.

10. Stability and Reactivity

10.1. Reactivity

Flammable liquid and vapor.

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10.2. Chemical Stability

No decomposition if used according to specifications.

10.3. Possibility of Hazardous Reactions

*Formation of explosive vapor-air-mixtures possible.
Heating leads to an increase of pressure and risk of bursting.*

10.4. Conditions to Avoid

Conditions to avoid:

Avoid heat, open fire and other ignition sources.

Thermal decomposition:

No data available.

10.5. Incompatible Materials

*Strong acids and strong oxidizing agents.
Contaminated cleaning rags and cloths, and protective clothing
may ignite spontaneously after several hours.*

10.6. Hazardous Decomposition Products

*In case of fire: formation of organic crack products and carbon
oxides.*

10.7. Further Information

11. Toxicological Information

11.1. Information on Toxicological Effects

Acute Toxicity

LD50, oral:

Lead monoxide: > 2000 mg/kg (rat)

LD50, dermal:

Lead monoxide: > 2000 mg/kg (rat)

LC50, inhalation:

*Turpentine oil: 13.7 mg/l (4h, rat; OECD 403); 29 mg/l (2h, mouse;
OECD 403)*

Lead monoxide: > 50 mg/l (rat)

Primary effects

Irritant effect on skin:

Turpentine oil: irritating (rabbit)

Irritant effect on eyes:

Turpentine oil: irritating (rabbit)

Inhalation:

No information available.

Ingestion:

No information available

Sensitization:

May cause allergic skin reactions.

Mutagenicity:

Lead monoxide:

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The evidence for genotoxic effects of highly soluble inorganic lead compounds is contradictory, with numerous studies reporting both positive and negative effects. Responses appear to be induced by indirect mechanisms, mostly at very high concentrations that lack physiological relevance.

Reproductive toxicity:

Lead monoxide:

Suspected of damaging the unborn child. Post-natal exposure of children to inorganic lead compounds is associated with adverse effects on neurobehavioural development.

Carcinogenicity:

Lead monoxide:

An inhalation study of lead monoxide in rats showed that it did not induce, initiate or promote tumors of the lung. However, there is evidence that soluble lead compounds may have a carcinogenic effect, particularly on the kidneys of rats. However, the mechanisms by which this effect occurs are still unclear.

Teratogenicity:

Lead monoxide:

Suspected of damaging fertility.

Specific target organ toxicity (STOT):

Lead monoxide:

Single exposure: no organospecific toxicity expected.

Repeated exposure: Lead monoxide is a cumulative poison and may be absorbed into the body through ingestion or inhalation. Inorganic lead compounds have been documented in observational human studies to produce toxicity in multiple organ systems and body function including the haemopoetic (blood) system, kidney function, reproductive function and the central nervous system.

Additional toxicological information:

Turpentine oil:

Aspiration toxicity: may be fatal if swallowed and enters airways.

May cause an allergic skin reaction.

Harmful. Irritating.

Risk of skin absorption.

Lead monoxide:

Aspiration hazard: Lead monoxide is a solid and aspiration hazards are not expected to occur.

Toxicokinetics:

Inorganic lead compounds are slowly absorbed by ingestion and inhalation and poorly absorbed through the skin. If absorbed, lead will accumulate in the body with low rates of excretion, leading to long-term build up. Part of risk management is to take blood samples from workers for analysis to ensure that exposure levels are acceptable.

12. Ecological Information

12.1. Aquatic Toxicity

Toxic for aquatic organisms. May cause long-term adverse effects in the aquatic environment.

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Fish toxicity:

Acute aquatic toxicity (Lead monoxide):

LC50: 0.01 - 0.1 (96h); M-Factor (acute): 10

LC50 (pH 5.5-6.5): 0.04 - 0.81 mg/l (96h; Pimephales promelas, Oncorhynchus mykiss)

LC50 (pH 6.5-7.5): 0.052 - 3.598 mg/l (96h; Pimephales promelas, Oncorhynchus mykiss)

LC50 (pH 7.5-8.5): 0.113 - 3.249 mg/l (96h; Pimephales promelas, Oncorhynchus mykiss)

Chronic aquatic toxicity (Lead monoxide):

NOEC: 0.01 - 0.1; M-Factor (chronic): 1

EC10: 0.0178 - 1.558 mg/l (Oncorhynchus mykiss, Pimephales promelas, Lepomis macrochirus)

EC10: 0.229 - 0.437 mg/l (Cyprinodon variegatus)

Daphnia toxicity:

Turpentine oil: EC50: 14.1 mg/l

Acute toxicity (Lead monoxide):

LC50 (pH 5.5-6.5): 0.073 - 0.655 mg/l (48h; Daphnia magna, Ceriodaphnia dubia)

LC50 (pH 6.5-7.5): 0.028 - 1.179 mg/l (48h; Daphnia magna, Ceriodaphnia dubia)

LC50 (pH 7.5-8.5): 0.026 - 3.115 mg/l (48h; Daphnia magna, Ceriodaphnia dubia)

Chronic aquatic toxicity (NOEC; Lead monoxide):

Freshwater invertebrates: NOEC (EC10): 0.0017 - 0.963 mg/l

(Daphnia magna, Hyalella azteca, Lymnaea palustris, Ceriodaphnia dubia, Lymnaea stagnalis, Philodina rapida, Alona rectangular, Diaphanosoma birgei, Chironomus tentans, Branchionus calyciflorus, Chironomus riparius, Baetis tricaudatus)

Marine water invertebrates: NOEC (EC10): 0.0092 - 1.409 mg/l (Mytilus trossulus, Americamysis bahia, Mytilus galloprovincialis, Neanthes arenaceoindentata, Stronglyocentrotus purpuratus, Paracentrotus lividus, Dendraster excentricus, Tisbe battagliai, Crassostrea gigas)

Freshwater sediment: NOEC (EC10): 573 - 3.390 mg/kg (Tubifex tubifex, Ephoron virgo, Hyalella azteca, Gammarus pulex, Lumbriculus variegatus, Hexagenia limbata, Chironomus tentans)

Marine water sediment: NOEC (EC10): 680 - 1.291 mg/kg (Neanthes arenaceoindentata, Leptocheirus plumulosus)

Bacteria toxicity:

Turpentine oil: EC50: 736 mg/l (3h, aquatic microorganisms; OECD 209)

Lead monoxide:

EC10 (NOEC): 1.06 - 2.92 mg/l (Respiration); 2.79 - 9.59 mg/l (Ammonia uptake rate); 1.0 - 7.0 mg/l (Mortality)

Chronic toxicity (NOEC):

Microorganisms, EC10: 97 - 7880 mg/l (Denitrification, N-mineralization, nitrification, basal respiration, substrate-induced respiration)

Toxicity to terrestrial invertebrates, EC10: 34 - 2445 mg/kg (Folsomia candida, Proisotoma minuta, Sinella curviseta, Eisenia fetida, Eisenia andrei, Dendrobaena rubida, Lumbricus rubellus,

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Aporrectodea caliginosa

Toxicity to terrestrial plants, EC10: 57 - 6774 mg/kg (*Hordeum vulgare*, *Zea mays*, *Echinochloa crus-galli*, *Lolium perenne*, *Sorghum bicolor*, *Triticum aestivum*, *Oryza sativa*, *Avena sativa*, *Rephanus sativus*, *Lycopersicon esculentum*, *Lactuca sativa*, *Cucumis sativus*, *Picea rubens*, *Pinus taeda*)

Algae toxicity:

Lead monoxide:

ErC50 (pH 5.5-6.5): 0.072 - 0.388 mg/l (72h; *Pseudokirchneriella subcapitata*, *Chlorella kesslerii*)

ErC50 (pH 6.5-7.5): 0.026 - 0.079 mg/l (72h; *Pseudokirchneriella subcapitata*, *Chlorella kesslerii*)

ErC50 (pH 7.5-8.5): 0.020 - 0.049 mg/l (72h; *Pseudokirchneriella subcapitata*, *Chlorella kesslerii*)

Freshwater plants, NOEC (EC10): 0.0061 - 1.190 mg/l (*Pseudokirchneriella subcapitata*), 0.085 - 1.025 mg/l (*Lemna minor*)

Marine water plants, NOEC (EC10): 0.0529 - 1.234 mg/l (*Skeletonema costatum*), 0.0119 mg/l (*Champia parvula*)

12.2. Persistency and Degradability

Turpentine oil: > 80 % (28d); Readily biodegradable (OECD 301E)

Lead is naturally occurring and ubiquitous in the environment.

Lead is obviously persistent in the sense that they do not depend to CO₂, water, and other elements of less environmental concern. In the water compartment, lead is rapidly and strongly bound to the suspended solids of the water column.

12.3. Bioaccumulation

Turpentine oil: An appreciate bioaccumulation potential is to be expected ($\log P(o/w) > 3$).

Lead monoxide:

Bioaccumulation potential (BAF): 1.552 l/kg; Fish: 0.10 kg/kg; Soil: not likely

12.4. Mobility

Lead monoxide:

Slightly soluble in water.

Adsorption/Soil: $\log K_d$ 5.2 (fresh water sediment); $\log K_d$ 5.7 (marine sediment); $\log K_d$ 3.8 (soil)

12.5. Results of PBT- und vPvP Assessment

The contents of the preparation do not comply with the criteria for the classification as PBT or vPvB.

12.6. Other Adverse Effects

Water hazard class:

2 (German Regulation) (Assessment by list): hazardous.

Behaviour in sewage systems:

Further ecological effects:

May cause long-term adverse effects in the aquatic environment. Prevent product from entering surface water and drains. Toxic to water organisms.

AOX Value:

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Product does not contain any organically bound halogen.

13. Disposal Considerations

13.1. Waste Treatment Methods

Product:

Must be disposed as hazardous waste. Do not allow product to reach sewage system.

Must be treated as toxic waste according to local laws and regulations.

European Waste Code (EWC):

060313 - Solid salts and solutions containing heavy metals.

060405 - Wastes containing other heavy metals.

Uncleaned packaging:

Contaminated packaging must be disposed like the substance.

Waste Code No.:

14. Transport Information

14.1. UN Number

ADR, IMDG, IATA 1263

14.2. UN Proper Shipping Name

ADR/RID: FARBE (Bleioxide)

IMDG/IATA: PAINT (Lead Oxide)

14.3. Transport Hazard Classes

ADR Class: 3

Hazard no.: 3

Classification code: F1

Tunnel restriction code: D/E

IMDG Class (sea): 3

Hazard no.: 3

EmS No.: F-E, S-E

IATA Class: 3

Hazard no.: 3

14.4. Packaging Group

ADR/RID: III

IMDG: III

IATA: III

14.5. Environmental Hazards

Labelling according 5.2.1.8 ADR/RID: fish and tree

Labelling according 5.2.1.6.3 IMDG: fish and tree

Classification as environmentally hazardous according 2.9.3

IMDG: yes

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Labelled with "P" according 2.10 IMDG: yes

14. 6. Special Precautions for User

not applicable

14. 7. Transportation in Bulk according to Annex II of MARPOL 73/78 and IBC-Code

IMDG: not applicable

14. 8. Further Information

15. Regulatory Information

15. 1. Safety, Health and Environmental Regulations/Legislation specific for the Substance or Mixture

Water hazard class:

2, hazardous for water (German Regulation)

Local regulations on chemical accidents:

Seveso-III Directive (2012/18/EU): P5c and E2

Employment restrictions:

The employment restrictions for young workers in accordance with the Youth Employment Protection Law are to be observed.

The employment restrictions for expectant and nursing mothers in accordance with the Maternity Protection Guideline are to be observed.

Restriction and prohibition of application:

Technical instructions on air quality:

Turpentine oil:

5.2.5.: Organic substances, class 1

5.2.5.: Organic substances: $m \geq 0.50$ kg/h: conc. 50 mg/m³

15. 2. Chemical Safety Assessment

A Chemical Safety Assessment has been carried out for the component substances contained in this product.

15. 3. Further Information

16. Other Information

This product should be stored, handled and used in accordance with good hygiene practices and in conformity with any legal regulations. This information contained herein is based on the present state of knowledge and is intended to describe our product from the point of view of safety requirements. It should be therefore not be construed as guaranteeing specific properties.