

Safety Data Sheet

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



27600 Kremer Color Paste - Lamp Black

Page 1

Revised edition: 03.04.2018

Version: 5

Printed: 27.02.2019

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

1.1. Product Identifier

Product Name: Kremer Color Paste - Lamp Black

Article No.: 27600

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

Identified uses:

Coloring agent for industrial purposes

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.de

E-Mail: info@kremer-pigmente.de

Importer: --

1.4. Emergency No.

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

2. Hazards Identification

2.1. Classification of the Substance or Mixture

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

This product does not require classification and labelling as hazardous according to CLP/GHS.

Classification according to Directive No. 67/548/EC or No. 1999/45/EC

Safety Phrases:

Possible Environmental Effects:

2.2. Label Elements

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

No classification required according to the CLP/GHS guidelines.

Hazard designation:

Not applicable.

Signal word:

Hazard designation:

Safety designation:

Hazardous components for labelling:

2.3. Other Hazards

Contains a mixture of 5-Chloro-2-methylisothiazolin-3(2H)-one (EG next page: 2

Safety Data Sheet

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



27600 Kremer Color Paste - Lamp Black

Page 2

Revised edition: 03.04.2018

Version: 5

Printed: 27.02.2019

247-500-7) and 2-Methylisothiazol-3(2H)-one (EG 220-239-6)
(3:1), 1,2-Benzisothiazol-3(2H)-one
EUH208: Can cause allergic reactions.

3. Composition/Information on Ingredients

3.1. Substance

3.2. Mixture

Chemical Characterization: Aqueous suspension of Pigment Black 7, C.I. 77266

Information on Components / Hazardous Ingredients:

1,2-Benzisothiazol-3(2H)-one (Xn,N; R22-38-41-43-50; H302-315-317-318-400)	0.0025-0.025%	CAS-Nr: 2634-33-5 EINECS-Nr: 220-120-9 EC-Nr: 613-088-00-6
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Mixture of: 5-Chloro-2-methyl-2H-isothiazole-3-one (EC 274-500-7) and 2-Methyl-2H-isothiazole-3-one (EC 220-239-6) (3:1) (H301-310-314-317-318-330-400 (M=100)-H410 (M=10))	0.0002-0.0015%	CAS-Nr: 55965-84-9 EINECS-Nr: EC-Nr: 613-167-00-5
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Additional information:

4. First Aid Measures

4.1. Description of the First Aid Measures

General information:

Seek medical attention in case of complaints.

After inhalation:

Supply fresh air and seek medical advice in case of complaints.
Give artificial respiration in case breathing is not regular or if it has stopped.
In case of unconsciousness place patient stable in side position for transportation.

After skin contact:

Remove contaminated clothing immediately. Wash off immediately with plenty of water and soap.
If irritation continues consult a physician.
Wash contaminated clothing before reuse.

After eye contact:

Remove contact lens. Rinse open eyes with plenty of water (10-15 min). Should irritation continue, seek medical advice.

After ingestion:

Rinse mouth thoroughly with plenty of water and drink plenty of water. Consult a physician.
Never give anything by mouth to an unconscious person.
Do not induce vomiting.
In case of unconsciousness, store, respectively transport in stable side position.

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

Symptoms:

No further information available.

next page: 3

Safety Data Sheet

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



27600 Kremer Color Paste - Lamp Black

Page 3

Revised edition: 03.04.2018

Version: 5

Printed: 27.02.2019

Effects:

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

Treatment:

No information available.

5. Fire-Fighting Measures

5.1. Extinguishing Media

Suitable extinguishing media:

Foam, carbon dioxide (CO₂), extinguishing powder, water spray jet.

Unsuitable extinguishing media:

Water with full jet.

5.2. Special Hazards arising from the Substance or Mixture

Special hazards:

In case of fire: formation of carbon oxides, nitrogen oxides.

5.3. Advice for Firefighters

Protective equipment:

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Further information:

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

6. Accidental Release Measures

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

Personal precautions:

*Wear appropriate protective equipment. Keep spectators away.
Do not breathe vapors/dust.
Floor may be slippery; use care to avoid falling.*

6.2. Environmental Precautions

Environmental precautions:

Prevent contamination of soils, drains and surface water.

6.3. Methods and Material for Containment and Cleaning Up

Methods and material:

Contain with absorbent material (e.g. sand, acid binder, universal binder, sawdust) and collect in appropriate containers for disposal.

6.4. Reference to other Sections

Protective clothing, see Section 8.

Dispose of contaminated material according to Section 13.

7. Handling and Storage

7.1. Precautions for Safe Handling

Instructions on safe handling:

Wear adequate protective clothing (see para. 8). next page: 4

Safety Data Sheet

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



27600 Kremer Color Paste - Lamp Black

Page 4

Revised edition: 03.04.2018

Version: 5

Printed: 27.02.2019

*Do not swallow or inhale.
Avoid contact with eyes, skin and clothing.*

Hygienic measures:

*Do not eat or drink during work. Do not smoke.
Wash hands at the end of work. Preventive skin protection recommended.*

7.2. Conditions for Safe Storage, including any Incompatibilities

Storage conditions:

*Store in tightly sealed containers in a dry and cool room.
Do not store together with food stuff and animal feed.
Protect product from direct sunlight.*

Requirements for storage areas and containers:

*Store the product in the original container.
Do not store product in unlabelled containers.*

Information on fire and explosion protection:

Storage class (VCI):

12; Non-combustible liquids

Further Information:

*Sensitive to frost.
In case the product is exposed to cold temperature and thickens resp. freezes, thaw slowly at room temperature, stir it. Product can be used afterwards.*

7.3. Specific End Use(s)

Further information:

8. Exposure Controls/Personal Protection

8.1. Parameters to be Controlled

Parameters to be controlled (DE):

Does not contain any components with workplace limit values.

Parameters to be controlled:

Derived No-Effect Level (DNEL):

*Propylene glycol (57-55-6):
168 mg/m³ (worker, inhalation, long-term exposition - systemic effects)
10 mg/m³ (worker, inhalation, long-term exposition - local effects)
50 mg/m³ (consumer, inhalation, long-term exposition - systemic effects)
10 mg/m³ (consumer, inhalation, long-term exposition - local effects)
213 mg/m³ (consumer, skin contact, long-term exposition - systemic effects)
85 mg/m³ (consumer, swallowing, long-term exposition - systemic effects)
C.I. Pigment Black 7 (1333-86-4):*

next page: 5

Safety Data Sheet

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



27600 Kremer Color Paste - Lamp Black

Page 5

Revised edition: 03.04.2018

Version: 5

Printed: 27.02.2019

2 mg/m³ (worker, inhalation, long-term exposition - systemic and local effects)

Predicted No-Effect Concentration (PNEC):

Propylene glycol (57-55-6):

Fresh water: 260 mg/l

Sea water: 26 mg/l

Fresh water sediment: 572 mg/kg dw

Sea water sediment: 57.2 mg/kg dw

Sewage treatment system (STP): 20000 mg/l

Intermittent release: 183 mg/l

Soil: 50 mg/kg dw

5-Chlor-2-methyl-2H-isothiazol-3-one and 2-Methyl-2H-isothiazol-3-one (3:1) (55965-84-9):

Fresh water: 0.049 µg/l

Sea water: 0.0098 µg/l

Sewage treatment system (STP): 0.045 µg/l

Soil: 0.009 µg/l

C.I. Pigment Black (1333-86-4):

Fresh water / Seawater: 5 mg/kg

Additional Information:

8.2. Exposure Controls

Technical protective measures:

Use local exhaust ventilation in case of dust and/or fume formation.

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

Personal Protection

General protective measures:

Avoid contact with eyes and skin.

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 (organic gases and vapors).

Hand protection:

Chemical protective gloves (EN 374 (Europe), F739 (US)).

Protective glove material:

Polypropylene (CR), nitrile rubber (NBR), polyvinyl chloride (PVC). Remove contaminated gloves and discard according to specifications.

Eye protection:

Safety glasses with protective shields (EN 166).

Body protection:

Protective clothing.

Environmental precautions:

next page: 6

Safety Data Sheet

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



27600 Kremer Color Paste - Lamp Black

Page 6

Revised edition: 03.04.2018

Version: 5

Printed: 27.02.2019

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

9. Physical and Chemical Properties

9.1. Information on Basic Physical and Chemical Properties

<i>Form:</i>	<i>liquid</i>
<i>Color:</i>	<i>black</i>
<i>Odor:</i>	<i>odorless</i>
<i>Odor threshold:</i>	<i>No information available.</i>
<i>pH-Value:</i>	<i>ca. 8</i>
<i>Melting temperature:</i>	<i>not available</i>
<i>Boiling temperature:</i>	<i>100°C (1013 hPa)</i>
<i>Flash point:</i>	<i>not available</i>
<i>Evaporation rate:</i>	<i>not applicable</i>
<i>Flammability (solid, gas):</i>	<i>not applicable</i>
<i>Upper explosion limit:</i>	<i>no information available</i>
<i>Lower explosion limit:</i>	<i>no information available</i>
<i>Vapor pressure:</i>	<i>not determined</i>
<i>Vapor density:</i>	<i>No information available.</i>
<i>Density:</i>	<i>ca. 1.28 g/cm³ (20°C)</i>
<i>Solubility in water:</i>	<i>miscible</i>
<i>Coefficient of variation (n-Octanol/Water):</i>	<i>no information available</i>
<i>Auto-ignition temperature:</i>	<i>not applicable</i>
<i>Decomposition temperature:</i>	<i>> 100°C</i>
<i>Viscosity, dynamic:</i>	<i>780 mPa.s (20°C)</i>
<i>Explosive properties:</i>	

next page: 7

Safety Data Sheet

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



27600 Kremer Color Paste - Lamp Black

Page 7

Revised edition: 03.04.2018

Version: 5

Printed: 27.02.2019

not applicable

Oxidizing properties:

No information available.

Bulk density:

9.2. Further Information

Solubility in solvents:

Viscosity, kinematic

Burning class:

Solvent content:

Solid content:

Particle size:

Other information:

10. Stability and Reactivity

10.1. Reactivity

Stable if used according to specifications.

10.2. Chemical Stability

Stable if used according to specifications.

10.3. Possibility of Hazardous Reactions

None if handled and stored according to specifications.

10.4. Conditions to Avoid

Conditions to avoid:

No information available.

Thermal decomposition:

10.5. Incompatible Materials

No information available.

10.6. Hazardous Decomposition Products

None if stored and handled according to specifications.

10.7. Further Information

11. Toxicological Information

11.1. Information on Toxicological Effects

Acute Toxicity

LD50, oral:

1,2-Benzisothiazol-3(2H)-one: 670 - 784 mg/kg (rat, m/f; OECD 401)

5-Chlor-2-methyl-2H-isothiazol-3-one and 2-Methyl-2H-isothiazol-3-one (3:1): 64 mg/kg (rat)

LD50, dermal:

1,2-Benzisothiazol-3(2H)-one: > 2000 mg/kg (rat, m/w)

5-Chlor-2-methyl-2H-isothiazol-3-one and 2-Methyl-2H-isothiazol-3-one (3:1): 92.4 mg/kg (rabbit)

next page: 8

Safety Data Sheet

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



27600 Kremer Color Paste - Lamp Black

Page 8

Revised edition: 03.04.2018

Version: 5

Printed: 27.02.2019

LC50, inhalation:

1,2-Benzisothiazol-3(2H)-one: 0.5 mg/l (4h, rat, m/f)
5-Chlor-2-methyl-2H-isothiazol-3-one and 2-Methyl-2H-isothiazol-3-one (3:1): 0.171 mg/l (4h, rat, m/f)

Primary effects

Irritant effect on skin:

1,2-Benzisothiazol-3-(2H)-one: irritating (4h, rabbit)
5-Chlor-2-methyl-2H-isothiazol-3-one and 2-Methyl-2H-isothiazol-3-one (3:1): caustic after 1-4 hours of exposition

Irritant effect on eyes:

1,2-Benzisothiazol-3(2H)-one: irritating (2.9h - 11d, rabbit)
5-Chlor-2-methyl-2H-isothiazol-3-one and 2-Methyl-2H-isothiazol-3-one (3:1): Gefahr ernster Augenschäden (Kaninchenaug)

Inhalation:

No information available.

Ingestion:

No information available

Sensitization:

1,2-Benzisothiazol-3(2H)-one: sensitizing (skin, guinea pig)
5-Chlor-2-methyl-2H-isothiazol-3-one and 2-Methyl-2H-isothiazol-3-one (3:1): sensitizing (skin, sub-category 1A): Toxic if swallowed, fatal in case of contact with skin and if inhaled. Causes severe skin burns and eye damage. May cause allergic skin reactions.

Mutagenicity:

5-Chlor-2-methyl-2H-isothiazol-3-one and 2-Methyl-2H-isothiazol-3-one (3:1): In vivo genetic-toxicity (Micronucleus Test): negative (bone marrow rat, oral, <=5d, 1-5x <=28 mg/kg); negative (mouse, oral, <=5d, 1-5x <=20-30 mg/kg)
In vivo genetic-toxicity: negative (560-1400 mg/kg, rat (m), oral; OECD 486); Mikronucleus-Test negative (125-250-500-1000-2000-5000 mg/kg, mouse (m/f), oral; OECD 474)
1,2-Benzisothiazol-3(2H)-one: In vitro genetic-toxicity: Mouse-Lymphoma-Test negative (0,1-12,8 µg/ml; Salmonella typhimurium; OECD 476); Ames-Test negative (0,064-200 µg/plate, Salmonella typhimurium; OECD 471); Chromosomal Aberration Test (1-40 µg/ml, human lymphocytes; OECD 473): positive

Reproductive toxicity:

1,2-Benzisothiazol-3(2H)-one: Did not show any reproductive toxicity: NOAEL Parents: 18.5 mg/kg KW, NOAEL FI: 48 mg/kg KW (oral, food, dosage: 18.5-97.8 mg/kg, rat (m)); NOAEL Parents: 27 mg/kg KW, NOAEL FI: 56.6 mg/kg KW (Oral, Futter, Dosis: 27.0-114.8 mg/kg, rat (f))
5-Chlor-2-methyl-2H-isothiazol-3-one and 2-Methyl-2H-isothiazol-3-one (3:1):
Did not show any reproductive toxicity: NOAEL Parents: 16.3-24.7 mg/kg bw, NOAEL FI: 16.3-24.7 mg/kg bw (Drinking water, dosage: 25-75-225 ppm, rat (m/f)); NOAEL Parents: 2.8-4.4 mg/kg bw, NOAEL FI: 22.7-28 mg/kg bw, NOAEL F2: 35.7-39.1 mg/kg bw (Drinking water, dosage: 30-100-300 ppm, rat (m/f); OECD 416)

next page: 9

Safety Data Sheet

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



27600 Kremer Color Paste - Lamp Black

Page 9

Revised edition: 03.04.2018

Version: 5

Printed: 27.02.2019

Carcinogenicity:

1,2-Benzisothiazol-3(2H)-one: not applicable
5-Chlor-2-methyl-2H-isothiazol-3-one and 2-Methyl-2H-isothiazol-3-one (3:1): no evidence found in animal studies

Teratogenicity:

5-Chlor-2-methyl-2H-isothiazol-3-one and 2-Methyl-2H-isothiazol-3-one (3:1): not classified
5-Chlor-2-methyl-2H-isothiazol-3-one and 2-Methyl-2H-isothiazol-3-one (3:1): not classified

Specific target organ toxicity (STOT):

1,2-Benzisothiazol-3(2H)-one:
Single exposure: the substance or mixture is not classified as specific target organ toxicant.
Repeated exposure: the substance or mixture is not classified as specific target organ toxicant.
Mixture of: 5-chloro-2-methyl-2H-isothiazol-3-on (EC 247-500-7) and 2-methyl-2H-isothiazol-3-on (EC 220-239-6) (3:1):
Single exposure: the substance or mixture is not classified as specific target organ toxicant.
Repeated exposure: the substance or mixture is not classified as specific target organ toxicant.

Additional toxicological information:

Aspiration hazard: not applicable

12. Ecological Information

12.1. Aquatic Toxicity

Fish toxicity:

1,2-Benzisothiazol-3(2H)-one: LC50: 2.18 mg/ml (96h, *Oncorhynchus mykiss*); LC50: ca. 16.7 mg/l (96h, *Cyprinodon variegatus*); NOEC: 0.21 mg/l (OECD 215)
5-Chlor-2-methyl-2H-isothiazol-3-one and 2-Methyl-2H-isothiazol-3-one (3:1): EC50: 0.22 mg/l (96h, *Oncorhynchus mykiss*; OECD 203); NOEC: 0.098 mg/l (28d, *Oncorhynchus mykiss*; OECD 215)

Daphnia toxicity:

1,2-Benzisothiazol-3(2H)-one: EC50: 2.94 mg/l; EC0: 0.643 mg/l (48h, *Daphnia magna*; OECD 202); EC50: 0.9893 mg/l (96h, *Mysidopsis bahia*); NOEC: 0.25 mg/l (96h, *Mysidopsis bahia*); NOEC: 1.2 mg/l (21d, *Daphnia magna*; OECD 211); NOEC: 1.9 mg/l (21d, *Daphnia magna*; OECD 211)
5-Chlor-2-methyl-2H-isothiazol-3-one and 2-Methyl-2H-isothiazol-3-one (3:1): EC50: 0.1 mg/l (48h, *Daphnia magna*; OECD 202); NOEC: 0.004 mg/l (21d, *Daphnia magna*; OECD 202)

Bacteria toxicity:

1,2-Benzisothiazol-3(2H)-one: EC50: 23 mg/ml (3h, active sludge; OECD 209); EC50: > 811.5 mg/kg dw (28d, soil; OECD 216); NOEC: 263.7 mg/kg dw (28d, soil; OECD 216)
5-Chlor-2-methyl-2H-isothiazol-3-one and 2-Methyl-2H-isothiazol-3-one (3:1): EC50: 7.92 mg/l (3h, active sludge; OECD 209)

Algae toxicity:

1,2-Benzisothiazol-3(2H)-one: EC50: 0.155 mg/l; NOEC: 0.055

next page: 10

Safety Data Sheet

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



27600 Kremer Color Paste - Lamp Black

Page 10

Revised edition: 03.04.2018

Version: 5

Printed: 27.02.2019

	<i>mg/l (72h, Selenastrum capricornutum; OECD 201)</i> <i>5-Chlor-2-methyl-2H-isothiazol-3-one and 2-Methyl-2H-isothiazol-3-one (3:1): EC50: 0.0052 mg/l; NOEC: 0.00049 mg/l (48h, Skeletonema costatum; OECD 201)</i>	
12. 2.	Persistency and Degradability <i>1,2-Benzisothiazol-3(2H)-one: partially readily biodegradable (1 mg/l, 63d, activated sludge; OECD 301C)</i> <i>5-Chlor-2-methyl-2H-isothiazol-3-one and 2-Methyl-2H-isothiazol-3-one (3:1): not readily biodegradable (activated sludge; OECD 301B); Photodegradation: Test type: water (light source: sunlight)</i>	
12. 3.	Bioaccumulation <i>1,2-Benzisothiazol-3(H)-one: Bioconcentration factor (BCF): 6.62 (0.1 mg/l, 56d, Lepomis macrochirus; OECD 305)</i> <i>5-Chlor-2-methyl-2H-isothiazol-3-one and 2-Methyl-2H-isothiazol-3-one (3:1): Bioconcentration factor (BCF): 3.6; log Pow: -0.71 - 0.75 (OECD 107)</i>	
12. 4.	Mobility <i>1,2-Benzisothiazol-3(2H)-one: Adsorption/Soil: KoC: 235 - 566</i>	
12. 5.	Results of PBT- und vPvP Assessment <i>1,2-Benzisothiazol-3(2H)-one: This substance is not classified as PBT nor as vPvB.</i> <i>5-Chlor-2-methyl-2H-isothiazol-3-one and 2-Methyl-2H-isothiazol-3-one (3:1): This substance is not classified as PBT (persistent, bioaccumulative, toxic).</i>	
12. 6.	Other Adverse Effects <i>Water hazard class:</i> <i>Behaviour in sewage systems:</i> <i>Further ecological effects:</i> <i>AOX Value:</i>	 <i>1, slightly hazardous (German Regulation; Self-assessment).</i> <i>Do not let product enter waterways or sewage system.</i>

13. Disposal Considerations

13. 1. Waste Treatment Methods

Product:

If product cannot be reused or recycled, it has to be disposed of according to current local regulations.

European Waste Code (EWC):

Uncleaned packaging:

Packaging may be disposed of in the same manner as the product.

Waste Code No.:

14. Transport Information

14. 1. UN Number

ADR, IMDG, IATA

next page: 11

Safety Data Sheet

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



27600 Kremer Color Paste - Lamp Black

Page 11

Revised edition: 03.04.2018

Version: 5

Printed: 27.02.2019

14.2. UN Proper Shipping Name

ADR/RID:

No hazardous goods according to ADR (land transportation).

IMDG/IATA:

No hazardous goods according to IMDG.

14.3. Transport Hazard Classes

ADR Class:

not applicable

Hazard no.:

Classification code:

Tunnel restriction code:

IMDG Class (sea):

Hazard no.:

EmS No.:

IATA Class:

not applicable

Hazard no.:

14.4. Packaging Group

ADR/RID:

not applicable

IMDG:

IATA:

14.5. Environmental Hazards

Not classified as environmentally hazardous.

14.6. Special Precautions for User

Not classified as a dangerous good under transport regulations.

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

not applicable

14.8. Further Information

Do not store together with foodstuffs.

15. Regulatory Information

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

Water hazard class:

1, slightly hazardous for water (German Regulation, Assessment by list)

Local regulations on chemical accidents:

Employment restrictions:

Restriction and prohibition of application:

Technical instructions on air quality:

next page: 12

Safety Data Sheet

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



27600 Kremer Color Paste - Lamp Black

Page 12

Revised edition: 03.04.2018

Version: 5

Printed: 27.02.2019

15.2. Chemical Safety Assessment

No Chemical Safety Assessment (CSA) is yet available for the substance, or for the component substances, contained in this product.

15.3. Further Information

EC. REACH, Annex XIV, Candidate List of Substances of very High Concern (SVHC): not regulated / not applicable

Regulation (EC) 850/2004 - Persistent organic pollutants and amending Directive 79/117/EEC: not regulated / not applicable

Regulation (EC) 1005/2009 - Substances that Deplete the Ozone Layer: not regulated / not applicable

Fire hazard class: not subject to the German "Flammable Liquids Ordinance" (VbF)

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.