

Safety Data Sheet

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



67300 Plexisol® P 550-40

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Revised edition: 20.12.2019

Version: 2

Printed: 14.06.2023

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

1.1. Product Identifier

Product Name: Plexisol® P 550-40

Article No.: 67300

UFI: --

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

Identified uses:
Binding agent

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

EMail: 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 2
Specific Target Organ Toxicity (single exposure), hazard category 3
GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
H225 Highly flammable liquid and vapour.
Cat.: 2
H336 May cause drowsiness or dizziness.
Cat.: 3
H411 Toxic to aquatic life with long lasting effects.
Cat.: 2

Possible Environmental Effects:

2.2. Label Elements

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

Hazard designation:

GHS02-2

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GHS07



GHS09

Signal word:

Danger

Hazard designation:

H225	Highly flammable liquid and vapour.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.
EUH208	May produce an allergic reaction.

Safety designation:

P210	Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.
P233	Keep container tightly closed.
P261	Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
P273	Avoid release to the environment.
P280	Wear protective gloves/ clothing/ eye/ face protection.
P304+P340	If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P312	Call a poison center or physician if you feel unwell.
P370+P378	In case of fire: use water spray, foam, carbon dioxide or dry extinguishing powder for extinction.
P391	Collect spillage
P403+P233	Store in a well ventilated place. Keep container tightly closed.
P501	Dispose of contents/ container according to regional, national and international regulations.

Hazardous components for labelling:

2.3. Other Hazards

*EUH208: Can cause allergic reactions.
Contains tert-Butyl-2-ethylperoxyhexanoate, n-Butylmethacrylate.*

3. Composition/Information on Ingredients

3.1. Substance

3.2. Mixture

Chemical Characterization: Solution of an acrylic polymer

Information on Components / Hazardous Ingredients:

Hydrocarbons, C6-C7 (H225-304-336-411); REACH 01-2119473851-36-0000	25 - 50 %	CAS-Nr: 92128-66-0 EINECS-Nr: 926-605-8
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EC-Nr:

Hydrocarbons, C7-C9, n-Alkanes, Isoalkanes, Cyclenes (H225-304-315-336-411); REACH Reg. No. 01-2119473851-33-0000	20 - 50 %	CAS-Nr: 68920-06-9 EINECS-Nr: 920-750-0 EC-Nr:
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tert-Butyl-2-ethylperoxyhexanoate (H242-317-360-411-400); REACH Reg.-Nr. 01-2119498310-40	0.25 - 1 %	CAS-Nr: 3006-82-4 EINECS-Nr: 221-110-7 EC-Nr:
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Cyclohexane (H225-304-315-336-400-410); REACH Reg. No. 01-2119463273-41	< 40 %	CAS-Nr: 110-82-7 EINECS-Nr: 203-806-2 EC-Nr: 601-017-00-1
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n-Hexane (H225-304-315-336-361f-373-411); REACH Reg. No. 01-2119480412-44	< 3 %	CAS-Nr: 110-54-3 EINECS-Nr: 203-777-6 EC-Nr: 601-037-00-0
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Additional information:

4. First Aid Measures

4.1. Description of the First Aid Measures

General information:

*Remove contaminated clothes immediately.
Seek medical attention in case of complaints.*

After inhalation:

*Supply fresh air and keep patient calm.
In case of complaints consult a physician.*

After skin contact:

*Remove contaminated clothing immediately. Wash off immediately with plenty of water and soap.
In case of skin irritation consult physician.*

After eye contact:

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

After ingestion:

Do not induce vomiting. Consult physician immediately.

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

Symptoms:

Longterm or repeated exposition: headache, coughing, difficulty breathing, nausea, dizziness, unconsciousness.

Effects:

No further information available.

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

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Treatment:

If vomiting occurs after ingestion, aspiration into the lungs can occur which can cause a chemical pneumonia or suffocation.

Treat symptomatically.

Risk of aspiration of stomach flushing and vomiting.

5. Fire-Fighting Measures

5.1. Extinguishing Media

Suitable extinguishing media:

Foam, CO₂, dry extinguishing powder.

Use extinguishing media for surrounding fire.

Unsuitable extinguishing media:

Water

5.2. Special Hazards arising from the Substance or Mixture

Special hazards:

In case of fire: formation of carbon monoxide, carbon dioxide and organic decomposition products.

Flammable liquid.

Risk of bursting of closed containers due to strong heating.

The vapor is heavier than air, spreads along the ground and distant ignition is possible.

Risk of bursting of closed containers due to strong heating.

5.3. Advice for Firefighters

Protective equipment:

Wear self-contained respiratory protective device.

Further information:

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

Cool exposed containers with water spray.

6. Accidental Release Measures

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

Personal precautions:

Provide adequate ventilation. Keep away from sources of ignition.

Keep away from sources of heat and ignition.

Wear protective clothing.

Keep unprotected persons out of danger zone.

Respiratory protection in case of formation of vapors/dust/aerosol.

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:

Large spills:

Larger amounts should be pumped into adequate containers.

Vapors in combination with air can form an explosive compound.

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	<i>Small spills:</i> <i>Contain with absorbent material (sand, diatomaceous earth, universal absorbent, Oil Dri) and dispose accordingly.</i>
6. 4. Reference to other Sections	<i>Protective clothing, see Section 8.</i>
7. Handling and Storage	
7. 1. Precautions for Safe Handling	
<i>Instructions on safe handling:</i>	<i>Provide adequate ventilation.</i> <i>Provide adequate ventilation, also in floor area (vapors are heavier than air).</i> <i>Open and handle container with care.</i>
<i>Hygienic measures:</i>	<i>Do not eat or drink during work. Do not smoke.</i> <i>Wash thoroughly after handling.</i>
7. 2. Conditions for Safe Storage, including any Incompatibilities	
<i>Storage conditions:</i>	<i>Store in tightly sealed containers in a cool and well ventilated location.</i> <i>Protect product from direct sunlight.</i>
<i>Requirements for storage areas and containers:</i>	<i>Store product in closed containers.</i>
<i>Information on fire and explosion protection:</i>	<i>Keep away from sources of ignition - do not smoke. Take measures to prevent electrostatic discharge.</i> <i>Vapors may form an explosive mixture with air.</i> <i>Cool exposed containers with water.</i> <i>Even the empty containers may still be dangerous.</i>
<i>Storage class:</i>	<i>3; Flammable liquids (TRGS 510)</i>
<i>Further Information:</i>	
7. 3. Specific End Use(s)	
<i>Further information:</i>	<i>No information available.</i>

8. Exposure Controls/Personal Protection

8. 1. Parameters to be Controlled

Parameters to be controlled (DE):

n-Hexane (CAS 110-54-3), ELV (TRGS 900): 180 mg/m³; 50 ml/m³; 8(II); Y

Y: No teratogenic risk when the exposure limit values (ELV) and biological limit values (BLV) are adhered to.

Cyclohexane (CAS 110-82-7): ELV (TRGS 900): 700 mg/m³; 200

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ppm (4)

Top limit: 4 (II)

Parameters to be controlled:

n-Hexane (CAS 110-54-3), TLV (EC ELV): 72 mg/m³; 20 ppm;
MAK (AT): Average value: 20 ppm, 72 mg/m³; Short term value:
80 ppm, 288 mg/m³; MAK (CH): Average value: 50 ppm, 180
mg/m³; Short term value: 400 ppm, 1440 mg/m³

Cyclohexane (CAS 110-82-7): TWA (EC ELV) 700 mg/m³; 200
ppm

Derived No-Effect Level (DNEL):

tert-Butyl-2-ethylperoxyhexanoate:

3.17 mg/m³ (worker, inhalation, long-term exposure - systemic
effects)

1.8 mg/kg bw/d (worker, skin contact, long-term exposure -
systemic effects)

Predicted No-Effect Concentration (PNEC):

tert-Butyl-2-ethylperoxyhexanoate:

Fresh water: 0.002 mg/l

Sea water: 0 mg/l

Fresh water sediment: 0.622 mg/kg

Sea water sediment: 0.062 mg/kg

Sewage treatment system (STP): 0.64 mg/l

Additional Information:

Biological limit value (TRGS 903):

n-Hexane: 5 mg/l (urine; end of exposure or shift)

Cyclohexane (110-82-7): 150 mg/g creatinine (end of exposure or
shift; urine)

8.2. Exposure Controls

Technical protective measures:

Adequate ventilation.

Personal Protection

General protective measures:

Do not inhale vapor/dust.

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.

Hand protection:

Protective gloves (EN 374)

Protective gloves should be changed regularly, especially after
intensive contact with the product.

Each work area must have adequate protective gloves.

Protective glove material:

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Nitrile rubber (480 min, 0.4 mm)

Viton(R) (480 min, 0.7 mm)

Eye protection:

Tightly fitting safety goggles (EN 166).

Body protection:

Protective clothing, chemical resistant safety shoes.

Environmental precautions:

No special measures required.

9. Physical and Chemical Properties

9.1. Information on Basic Physical and Chemical Properties

Form:

liquid

Color:

colorless

Odor:

gasoline-like

Odor threshold:

no information available

pH-Value:

not applicable

Melting temperature:

< 0°C

Boiling temperature:

85°C (1013 hPa) (Naphtha)

Flash point:

-5°C (DIN 51755) (Naphtha)

Evaporation rate:

not applicable

Flammability (solid, gas):

> 200°C (DIN 51794) (Naphtha)

Upper explosion limit:

8.3 Vol.-% (Naphtha)

Lower explosion limit:

0.7 Vol.-% (Naphtha)

Vapor pressure:

100 hPa (20°C) (Naphtha)

Vapor density:

No information available.

Density:

0.84 g/cm³ (20°C)

Solubility in water:

practically insoluble

Auto-ignition temperature:

No information available.

Decomposition temperature:

No data available.

Viscosity, dynamic:

2800 - 5400 mPa.s (20°C)

Explosive properties:

not available

Oxidizing properties:

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no information available

Bulk density:

not determined

9.2. Further Information

Solubility in solvents:

Esters, ketones and chlorinated hydrocarbons.

Viscosity, kinematic:

808 mm²/s (40°C)

Burning class:

Solvent content:

VOC-Content (EU): 705.6 g/l; 84 %

Solid content:

Particle size:

Other information:

Minimal ignition temperature: > 200°C (DIN 51794) (Naphtha)

10. Stability and Reactivity

10.1. Reactivity

No decomposition if used according to specifications.

10.2. Chemical Stability

Stable if used according to specifications.

10.3. Possibility of Hazardous Reactions

Reacts with strong oxidants.

10.4. Conditions to Avoid

Conditions to avoid:

Avoid high temperature.

Avoid ignition sources.

Thermal decomposition:

No decomposition if used according to specifications.

10.5. Incompatible Materials

Oxidizing agents.

10.6. Hazardous Decomposition Products

Thermal decomposition may yield toxic and irritating fumes, predominantly consisting of n-butyl methacrylate.

10.7. Further Information

11. Toxicological Information

11.1. Information on Hazard Classes as defined in Regulation (EC) No. 1272/2008

Acute Toxicity

LD50, oral:

Hydrocarbons, C6-C7: > 16750 mg/kg (rat)

Hydrocarbons, C7-C9, n-Alkanes, Isoalkanes, Cyclics: > 5840 mg/kg (rat)

tert-Butyl-2-ethylperoxyhexanoate: > 10000 mg/kg (rat)

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Cyclohexane: > 5000 mg/kg (rat)

n-Hexane: 15854 mg/kg (rat)

LD50, dermal:

Hydrocarbons, C6-C7: > 3350 mg/kg (rabbit)

Hydrocarbons, C7-C9, n-Alkanes, Isoalkanes, Cyclics: > 2800-3100 mg/kg (rat)

tert-Butyl-2-ethylperoxyhexanoate: LD50: > 10000 mg/kg (Rabbit)

Cyclohexane: > 2000 mg/kg (rabbit)

n-Hexane: > 2000 mg/kg (rat)

LC50, inhalation:

Hydrocarbons, C6-C7: 73860 ppm (4h, rat m)

Hydrocarbons, C7, n-Alkanes, Isoalkanes, Cyclics: > 23.3 mg/kg (4h, rat)

Cyclohexane: 14 mg/kg (4h; rat); NOAEL: 2000 mg/kg

n-Hexane: 17.6 mg/l

Primary effects

Irritant effect on skin:

Prolonged and/or repeated skin contact can cause irritations.

The product has a defatting effect.

Hydrocarbons, C6-C7: non irritating effect (rabbit)

Hydrocarbons, C7-C9, n-Alkanes, Isoalkanes, Cyclenes: non irritating effect (OECD 404)

tert-Butyl-2-ethylperoxyhexanoate: non irritating

Cyclohexane: irritating

n-Hexane: irritating

Irritant effect on eyes:

May irritate eyes.

Hydrocarbons, C6-C7: non irritating (rabbit)

Hydrocarbons, C7-C9, n-Alkanes, Isoalkanes, Cyclenes: non irritating

tert-Butyl-2-ethylperoxyhexanoate: non irritating

Cyclohexane: non irritating

n-Hexane: non irritating

Inhalation:

No information available.

Ingestion:

No information available

Sensitization:

Hydrocarbons, C6-C7: non sensitizing

Hydrocarbons, C7-C9, n-Alkanes, Isoalkanes, Cyclenes: non sensitizing

tert-Butyl-2-ethylperoxyhexanoat: non sensitizing

Cyclohexane: non sensitizing

n-Hexane: non sensitizing

Mutagenicity:

In vitro genetic-toxicity:

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Hydrocarbons, C6-C7: negative (OECD 471)
Hydrocarbons, C7-C9 n-Alkanes, Isoalkanes, Cyclenes: negative (OECD 476)
tert-Butyl-2-ethylperoxyhexanoate: positive (Ames-Test)
Cyclohexane: negative
n-Hexane: negative (OECD 471)
In vivo genetic-toxicity:
Hydrocarbons, C6-C7: negative (rat; OECD 475)
Hydrocarbons, C7-C9 n-Alkanes, Isoalkanes, Cyclenes: negative (OECD 474)
tert-Butyl-2-ethylperoxyhexanoat: negative (OECD 474)
Cyclohexane: negative (OECD 475)
n-Hexan: negative

Reproductive toxicity:

tert-Butyl-2-ethylperoxyhexanoate: Suspected of damaging fertility.
n-Hexane: Suspected of damaging fertility.

Carcinogenicity:

Contains no ingredient listed as carcinogen (> 0.1 %).

Teratogenicity:

No information available.

Specific target organ toxicity (STOT):

Single exposure: may cause drowsiness or dizziness.
Hydrocarbons, C6-C7: May cause drowsiness and dizziness
Hydrocarbons, C7-C9, n-Alkanes, Isoalkanes, Cyclenes: Category 3, with narcotic effects
Cyclohexane: Category 3, with narcotic effects (central nervous system)
n-Hexane: Category 3, with narcotic effects
Repeated exposure: no information available.
n-Hexane: Category 2, can damage the organs after repeated or prolonged exposure.

Aspiration hazard:

Hydrocarbons, C7-C9, n-Alkanes, Isoalkanes, Cyclenes: May be fatal if swallowed and enters airways.
Hydrocarbons, C6-C7: May be fatal if swallowed and enters airways.
Cyclodexane: The product can be aspirated into the lungs during swallowing or vomiting. This could result in severe injury to the lungs and death.
n-Hexane: May be fatal if swallowed and enters airways.

11. 2. Information on other Hazards

Vapors have narcotic effects and can cause headache, tiredness, dizziness, vomiting, unconsciousness and cramps.
Inhalation of fumes/vapors can cause irritation of the respiratory tract.

12. Ecological Information

12. 1. Aquatic Toxicity

Fish toxicity:

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Product: no data available.

Hydrocarbons, C6-C7: LC50: 12 mg/l (96h, Oncorhynchus mykiss); NOELR: 2.187 mg/l (28d)

Hydrocarbons, C7-C9 n-Alkanes, Isoalkanes, Cyclenes: LC50: 10 - 100 mg/l (96h, fish)

tert-Butyl-2-ethylperoxyhexanoate: LC50: 8.66 mg/l (96h, Salmo irideus)

Cyclohexane: LC50: > 55 mg/l (48h, Leuciscus idus)

Daphnia toxicity:

Product: no data available.

Hydrocarbons, C6-C7: EC50: 17.06 mg/l (48h, Daphnia magna); NOEC: 3.818 mg/l (21d, Daphnia magna)

Hydrocarbons, C7-C9 n-Alkanes, Isoalkanes, Cyclenes: EC50: 1 - 10 mg/l (48h, Daphnia magna)

tert-Butyl-2-ethylperoxyhexanoat: EC50: 7.5 mg/l (48h, Daphnia magna); NOEC: 0.45 mg/l (21d, Daphnia magna; OECD 211)

Cyclohexane: EC50: 3.78 mg/l (48h, Daphnia magna)

Bacteria toxicity:

Product: no data available.

Hydrocarbons, C7-C9 n-Alkanes, Isoalkanes, Cyclenes: LC50: 1 - 10 mg/l (3h)

tert-Butyl-2-ethylperoxyhexanoate: EC50: 64 mg/l (30 min, active sludge; OECD 209); EC10: 0.01 mg/l (30 min, active sludge; OECD 209)

Algae toxicity:

Product: no data available.

Hydrocarbons, C6-C7: NOEC: 30 mg/l (72h, Pseudokirchneriella subcapitata; OECD 201)

Hydrocarbons, C7-C9 n-Alkanes, Isoalkanes, Cyclenes: LC50: 1 - 10 mg/l (72h, algae)

tert-Butyl-2-ethylperoxyhexanoate: EC50: 0.44 mg/l (72h, Pseudokirchneriella subcapitata); NOEC: 0.013 mg/l (72h, Pseudokirchneriella subcapitata)

Cyclohexane: EC50: > 500 mg/l (72h, Desmodesmus subspicatus)

12. 2. Persistency and Degradability

No information available.

12. 3. Bioaccumulation

Bioaccumulation is not to be expected.

12. 4. Mobility

No information available.

12. 5. Results of PBT- und vPvP Assessment

On the basis of available data, the product does not contain any PBT or vPvB substances in percentage greater than 0.1 %.

12. 6. Endocrine Disrupting Properties

No data available.

12. 7. Other Adverse Effects

Water hazard class:

1, slightly hazardous

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Behaviour in sewage systems:

Further ecological effects:

Do not let product enter waterways or sewage system.

AOX Value:

13. Disposal Considerations

13.1. Waste Treatment Methods

Product:

The waste is hazardous.

Dispose of according to official national and local regulations.

European Waste Code (EWC):

Uncleaned packaging:

Non-contaminated packaging may be recycled.

Contaminated packaging must be disposed like the substance.

Waste Code No.:

14. Transport Information

14.1. UN Number

ADR, IMDG, IATA 1866

14.2. UN Proper Shipping Name

ADR/RID: HARZLÖSUNG, ENTZÜNDBAR, SV 640D

IMDG/IATA: RESIN SOLUTION, FLAMMABLE (Petroleum distillates), SP 640D

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: II

IMDG: II

IATA: II

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

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IMDG: yes

Labelled with "P" according 2.10 IMDG: yes

14.6. **Special Precautions for User**

14.7. **Maritime Transport in Bulk according to IMO Instruments**

not evaluated

14.8. **Further Information**

Special Provision: 640D

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 (according to the German Regulation AwSV)

Local regulations on chemical accidents:

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

Category E2: Environmentally hazardous: Amount 2: 200 t; Amount 3: 500 t

Flammable liquids (P5c): Amount 1: 5000 t; Amount 2: 50000 t

Employment restrictions:

The employment restrictions for expectant and nursing mothers, and for young workers are to be observed.

Restriction and prohibition of application:

EC. REACH, Section XVII, Restrictions on the Manufacture, Placing on the Market and Use of Certain Dangerous Substances, Preparations and Articles: not applicable

Technical instructions on air quality:

Not applicable.

15.2. **Chemical Safety Assessment**

A Chemical Safety Assessment has not been carried out for this product.

EC SVHC-List: This product does not contain a substance in the candidate list for substances of very high concern (REACH Regulation (EC) 1907/2006, Article 57)

15.3. **Further Information**

Listed in the following inventories:

EINECS (EU), TSCA (US), AICS (AUS), DSL (CA), PICCS (PH), ECL (KR), MITI (JP), IECSC (CN), ECS (TW)

Regulation (EC) 2037/2000 - Substances that Deplete the Ozone Layer: does not contain any ozone-depleting substances of group I and II nor are any used for the manufacture.

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

Content of volatile organic compounds (VOC): 705.6 g/l; 84 %

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

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from the point of view of safety requirements. It should be therefore not be construed as guaranteeing specific properties.