

Issue Date: 17.04.2019 Last revised date: 20.09.2019 Supersedes Date: 11.07.2019

# **SAFETY DATA SHEET**

# 1. Identification

**Product identifier: DEGADUR® 151** 

Chemical name: Solution of an acrylic polymer in methacrylic acid esters / acrylic acid esters

Other means of identification

**Recommended use:** binder for floor-coating **Recommended restrictions:** None known.

Manufacturer/Importer/Distributor Information

Company Name : Röhm GmbH

Product Stewardship Kirschenallee 64293 Darmstadt

Telephone : +49 6151 18 4076

E-mail : sds-info@roehm.com

Manufacturer

**Emergency telephone number:** 

24-Hour Health : +49 6241 402 5280 (24h)

Emergency

+49 6131 19 240 (24h)

# 2. Hazard(s) identification

## According to Hazardous Product Regulations

## **Physical Hazards**

Flammable liquids Category 2

**Health Hazards** 

Acute toxicity (Oral)

Skin irritation

Category 5

Skin sensitizer

Category 1

Specific Target Organ Toxicity 
Category 3<sup>1</sup>

Single Exposure

**Target Organs** 

1. Respiratory system

**Environmental Hazards** 

Acute hazards to the aquatic Category 2 environment

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#### **Label Elements**

#### **Hazard Symbol:**



Signal Word: Danger

**Hazard Statement:** Highly flammable liquid and vapor.

May be harmful if swallowed.

Causes skin irritation.

May cause an allergic skin reaction. May cause respiratory irritation.

Toxic to aquatic life.

Precautionary Statements

Prevention: Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking. Keep container tightly closed. Ground and bond

container and receiving equipment. Use explosion-proof

[electrical/ventilating/lighting/...] equipment. Use non-sparking tools. Take

action to prevent static discharges. Avoid breathing

dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wear

protective gloves/eye protection/face protection.

Response: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse

skin with water [or shower]. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. In case of fire: Use dry

sand, dry chemical or alcohol-resistant foam to extinguish.

Storage: Store in a well-ventilated place. Keep container tightly closed. Store in a

well-ventilated place. Keep cool. Store locked up.

**Disposal:** Dispose of contents/ container to an approved waste disposal plant.

**Other hazards:** Take precautionary measures against static discharges.

Polymerization with heat evolution may occur in the presence of radical forming substances (e.g. peroxides), reducing substances,

and/or heavy metal ions.

# 3. Composition/information on ingredients



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#### **Chemical name:**

Solution of an acrylic polymer in methacrylic acid esters / acrylic acid esters

#### **Mixtures**

Solution of an acrylic polymer in methacrylic acid esters / acrylic acid esters

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)*
Methyl methacrylate		80-62-6	>=30,0 - <50,0%
2-ethylhexyl acrylate		103-11-7	>=20,0 - <30,0%
1,4-butanediol dimethacrylate		2082-81-7	>=1,0 - <10,0%
N,N-bis-(2-hydroxypropyl)-p-toluidine		38668-48-3	>=1,0 - <10,0%
(2-hydroxy-4- methoxyphenyl)phenyl- methanone		131-57-7	>=0,1 - <1,0%

<sup>\*</sup> All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

#### 4. First-aid measures

**Description of necessary first-aid measures** 

**General information:** Take off all contaminated clothing immediately. Medical treatment is

necessary if symptoms occur which are obviously caused by skin or eye

contact with the product or by inhalation of its vapours.

**Inhalation:** Move subject to fresh air and keep him calm. If symptoms persist, call

a physician.

**Skin Contact:** IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water [or shower]. Wash contaminated clothing before

reuse. Seek medical advice if symptoms occur.

**Eye contact:** IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing. If

symptoms persist, call a physician.

**Ingestion:** Do not induce vomiting, call in a physician. Never give anything by

mouth to an unconscious person.

**Personal Protection for First-**

aid Responders:

Wear self-contained breathing apparatus.

Most important symptoms/effects, acute and delayed

**Symptoms:** Excessive or prolonged exposure can cause the following: Headache.

confusion Irritation Product has dermal defatting effect

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**Hazards:** No data available.

Indication of immediate medical attention and special treatment needed



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Treatment: Symptomatic treatment.

# 5. Fire-fighting measures

#### **General Fire Hazards:**

Vapours are heavier than air and can form an explosive mixture with air. Flammable liquid. Vapors can travel to a source of ignition and flash back. Explosive mixtures may occur at temperatures at or above the flashpoint. Remove sources of ignition. Also keep emptied containers away from sources of heat and ignition. Keep out unprotected persons. In case of fire. remove the endangered barrels and bring to a safe place, if this can be done safely. Containers exposed to heat (fire) may build up pressure. Cool by splashing with water. Prevent fire extinguishing water from contaminating surface water or the ground water system. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

#### Suitable (and unsuitable) extinguishing media

Suitable extinguishing

media:

foam Dry chemical. Carbon dioxide Water spray.

Unsuitable extinguishing

media:

High volume water jet

Specific hazards arising from

the chemical:

May be released in case of fire: carbon monoxide, carbon dioxide, organic products of decomposition. Closed container may rupture if strongly heated. Vapours may form explosive mixtures with air. Combustible air-vapour mixtures are heavier than the air and spread along the floor. Ignition from a considerable distance is possible.

#### Special protective equipment and precautions for firefighters

Special fire fighting procedures:

Keep away from sources of ignition - No smoking. Vapors are heavier than air. Flammable liquid. Vapors can travel to a source of ignition and flash back. Explosive mixtures may occur at temperatures at or above the

flashpoint.

Take action to prevent static discharges. Use explosion-proof equipment. In the event of fire, cool the endangered containers with water. Fire fighting

must be carried out from a safe distance.

Special protective equipment

for fire-fighters:

Wear self-contained breathing apparatus.

# 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Assure sufficient ventilation. Use personal protective clothing. Use breathing apparatus if exposed to vapours/dust/mist/aerosol. Keep away from open flames, hot surfaces and sources of ignition. Vapours can form explosive mixtures with air. Keep out unprotected persons. Avoid spark generation.



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Methods and material for containment and cleaning up:

Larger quantities: Remove mechanically (by pumping). Use explosion-proof equipment! Smaller quantities and/or residues: Contain with absorbent material (e.g. sand, diatomaceous earth, acid absorbent, universal absorbent or sawdust). Dispose of in accordance with regulations.

**Environmental Precautions:** 

Prevent product from getting into drains/surface water/groundwater.

#### 7. Handling and storage

#### Precautions for safe handling:

Keep away from sources of ignition - No smoking. Vapors are heavier than air. Flammable liquid. Vapors can travel to a source of ignition and flash back. Explosive mixtures may occur at temperatures at or above the flashpoint.

Take action to prevent static discharges. In the event of fire, cool the endangered containers with water. Fire fighting must be carried out from a safe distance. Do not breathe vapors. Avoid contact with skin and eyes. When using do not eat, drink or smoke. Remove contaminated clothing and wash it before reuse. Avoid inhalation, ingestion and contact with skin and eyes. Provide sufficient ventilation and exhaust at the workplace. Provide good room ventilation even at ground level (vapours are heavier than air). Keep container tightly closed. Open drum carefully as content may be under pressure. Keep away from heat/sparks/open flames/hot surfaces. No smoking. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. Wash thoroughly after handling. Keep locked up.

Conditions for safe storage, including any incompatibilities:

Keep away from open flames, hot surfaces and sources of ignition.Keep away from heat.Protect from the action of light.Protect from direct sunlight.Keep containers tightly closed in a cool, well-ventilated place. Fill the container by approximately 90 % only as oxygen (air) is required for stabilisation. With large storage containers make sure the oxygen (air) supply is sufficient to ensure stability.Keep locked up.Keep only in the original container at temperature not exceeding 30 °C

#### 8. Exposure controls/personal protection

#### **Control Parameters**

**Occupational Exposure Limits** 

**Biological Limit Values** 

No biological exposure limits noted for the ingredient(s).

Appropriate Engineering Controls

For monitoring procedures refer for instance to "Empfohlene Analysenverfahren für Arbeitsplatzmessungen", Schriftenreihe der Bundesanstalt für Arbeitsschutz and "NIOSH Manual of Analytical Methods", National Institute for Occupational Safety and Health

#### Individual protection measures, such as personal protective equipment

**General information:** No data available.

**Eye/face protection:** tightly fitting goggles



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**Skin Protection** 

**Hand Protection:** Material: butyl rubber gloves

Break-through time: 60 min

Guideline: EN 374

Additional Information: Gloves should be replaced regularly, especially after extended contact with the product., For each work-place a suitable glove

type has to be selected.

Other: On handling of larger quantities: face mask, chemical-resistant boots and

apron

**Respiratory Protection:** Breathing apparatus in case of high concentrations

Hygiene measures: Take off all contaminated clothing immediately. Store work clothing

separately. Follow the usual good standards of occupational hygiene. Clean

skin thoroughly after work; apply skin cream.

## 9. Physical and chemical properties

**Appearance** 

Physical state: liquid Form: liquid

Color: bluish, slightly turbid

Odor: ester-like

**Odor Threshold:** No data available. pH: Not applicable < 15 °C

Freezing point:

**Boiling Point:** approx. 100 °C (1.013 hPa)

**Flash Point:** 10 °C (DIN 51 755) (methyl methacrylate)

**Evaporation Rate:** No data available. Flammability (solid, gas): No data available.

Flammability Limit - Upper (%): 12,5 %(V) (methyl methacrylate)

Flammability Limit - Lower (%): 2,1 %(V) at 10,5°C (methyl methacrylate)

Vapor pressure: approx. 40 hPa (20 °C)

> 1 20 °C Vapor density (air=1):

Density: 0,97 g/cm3 (20 °C) Relative density: No data available.

Solubility(ies)

Solubility in Water: approx. 20 g/I (20 °C) soluble in ethyl acetate Solubility (other): Partition coefficient (n-octanol/water): No data available.

**Autoignition Temperature:** The substance or mixture is not classified as self heating.

**Decomposition Temperature:** No decomposition if used as directed.

Kinematic viscosity: approx. 77 - 150 mm2/s Dynamic viscosity: 75 - 145 mPa.s (23 °C) **Explosive properties:** No data available. **Oxidizing properties:** No data available.



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Other information

**Dust Explosion Limit, Upper:** (methyl methacrylate)

**Dust Explosion Limit, Lower:** at 10,5°C (methyl methacrylate)

Minimum ignition temperature: 430 °C (DIN 51794) (methyl methacrylate)

**Self Ignition Temperature:** The substance or mixture is not classified as self

heating.

# 10. Stability and reactivity

**Reactivity:** No data available.

Chemical Stability: No decomposition if used as directed. The product is normally stabilized

when delivered. However, it might polymerize producing heat and ignite spontaneously if maximum storage time and/or maximum storage

temperature have been substantially exceeded.

Possibility of hazardous

reactions:

Polymerization with heat evolution may occur in the presence of radical forming substances (e.g. peroxides), reducing substances, and/or heavy

metal ions.

**Conditions to avoid:** Heat and ignition sources, aging, contamination, oxygen free atmosphere.

Incompatible Materials: Peroxides, amines, sulfur compounds, heavy metal ions, alkalis, reducing

agents and oxidizing agents.

**Hazardous Decomposition** 

**Products:** 

None when used as directed.

# 11. Toxicological information

#### Information on likely routes of exposure

**Inhalation:** Relevant route of exposure. Information on effects are given below.

**Skin Contact:** Relevant route of exposure. Information on effects are given below.

**Eye contact:** Relevant route of exposure. Information on effects are given below.

**Ingestion:** If handled correctly, not a relevant route of exposure. Information on effects

are given below.

#### Symptoms related to the physical, chemical and toxicological characteristics

Inhalation: Headache. Dizziness.

**Skin Contact:** May cause skin irritation. May cause allergic skin reaction.

**Eye contact:** Causes serious eye irritation.

**Ingestion:** If handled correctly, not a relevant route of exposure. Information on effects

are given below.



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## Information on toxicological effects

# Acute toxicity (list all possible routes of exposure)

Oral

**Product:** Acute toxicity estimate: 2.224 mg/kg

**Dermal** 

**Product:** ATEmix: > 5.000 mg/kg

Inhalation

**Product:** ATEmix: > 50 mg/l

Vapour

Repeated dose toxicity

**Product:** No data available.

Specified substance(s):

Methyl methacrylate NOAEL (Rat, Inhalation(Vapour) ): 25 ppm

NOAEL (Rat, Oral): 2000 ppm NOAEL (Rat, Oral): 300 mg/kg

1,4-butanediol dimethacrylate (2-hydroxy-4-

methoxyphenyl)phenyl-

methanone

The available data do not suffice for classification.

Skin Corrosion/Irritation

**Product** Irritating.

Properties of components in summary.

Serious Eye Damage/Eye

Irritation

**Product:** Contact with the eyes may cause irritation. Properties of components in

summary.

Respiratory or Skin Sensitization

**Product:** No data available.

Specified substance(s):

Methyl methacrylate Local Lymph Node Assay, OECD TG 429 (Mouse): May cause sensitization

by skin contact.

2-ethylhexyl acrylate Skin sensitizer



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1.4-butanediol Local Lymph Node Assay (LLNA), OECD Test Guideline 429 (Mouse):

Sensitising Own test result. dimethacrylate

N,N-bis-(2-

hydroxypropyl)-p-

toluidine

(2-hydroxy-4-

methoxyphenyl)phenyl-

methanone

Maximization Test (GPMT) (Guinea Pig): Not a skin sensitizer.

Carcinogenicity

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

Not a skin sensitizer.

**Germ Cell Mutagenicity** 

In vitro

Product: No data available.

Specified substance(s):

1,4-butanediol gene mutation (OECD TG 471): negative

dimethacrylate

N, N-bis-(2-(OECD TG 471)negative

hydroxypropyl)-p-toluidine

(2-hydroxy-4-

methoxyphenyl)phenyl-

methanone

Not classified

In vivo

Product: No data available.

Specified substance(s):

1,4-butanediol dimethacrylate Chromosomal aberration (OECD TG 474) Oral (Mouse): negative

N, N-bis-(2-

hydroxypropyl)-p-toluidine

(2-hydroxy-4-

methoxyphenyl)phenyl-

methanone

Not classified

Ames test: negative

Reproductive toxicity

**Product:** Contains no ingredient listed as toxic to reproduction (>0.1%).

**Specific Target Organ Toxicity - Single Exposure** 

**Product:** No data available.

Specified substance(s):

Category 3 with respiratory tract irritation. Methyl methacrylate 2-ethylhexyl acrylate Category 3 with respiratory tract irritation.

1.4-butanediol dimethacrylate Not classified no evidence for hazardous properties

N, N-bis-(2-Not classified

hydroxypropyl)-p-toluidine



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(2-hydroxy-4-

Not classified based on available information.

methoxyphenyl)phenyl-

methanone

**Specific Target Organ Toxicity - Repeated Exposure** 

**Product:** No data available.

Specified substance(s):

Methyl methacrylate Not classified 2-ethylhexyl acrylate Not classified

1.4-butanediol Not classified no evidence for hazardous properties

dimethacrylate

N, N-bis-(2-Not classified

hydroxypropyl)-p-toluidine

(2-hydroxy-4-

Not classified

methoxyphenyl)phenyl-

methanone

**Target Organs** 

Specific Target Organ Toxicity - Single Exposure: Respiratory system

**Aspiration Hazard** 

**Product:** No aspiration toxicity classification

Other effects: There are no toxicological data available for the product as such. Avoid

contact with the skin and eyes and inhalation of the product vapours.

# 12. Ecological information

## **Ecotoxicity:**

#### Acute hazards to the aquatic environment:

Fish

**Product:** No data available.

Specified substance(s):

Methyl methacrylate LC 50 (Oncorhynchus mykiss (rainbow trout), 96 h): > 79 mg/l

NOEC (Danio rerio (zebra fish), 32 d): 9,4 mg/l literature

2-ethylhexyl acrylate LC 50 (Salmo gairdneri, 96 h): 4.6 mg/l

LC 50 (Oncorhynchus mykiss (rainbow trout), 96 h): 1,81 mg/l

1,4-butanediol LC 50 (Leuciscus idus melanotus, 48 h): 32,5 mg/l The data are derived

dimethacrylate from the evaluations or test results achieved with similar products

(conclusion by analogy). Own test result.

N,N-bis-(2hydroxypropyl)-p-

toluidine

LC 50 (Danio rerio (zebra fish), 96 h): 17 mg/l

(2-hydroxy-4-

methoxyphenyl)phenyl-

methanone

LC 50 (Leuciscus idus (Golden orfe), 96 h): 100 - 220 mg/l The reported

toxic effects relate to the nominal concentration.

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**Aquatic Invertebrates** 

**Product:** No data available.

Specified substance(s):

Methyl methacrylate EC 50 (Daphnia magna (Water flea), 48 h): 69 mg/l

NOEC (Daphnia magna (Water flea), 21 d): 37 mg/l

2-ethylhexyl acrylate EC 50 (Daphnia magna, 48 h): 8,74 mg/l

EC 50 (Daphnia magna (Water flea), 48 h): 17,45 mg/l

N,N-bis-(2-hydroxypropyl)-p-

toluidine

EC 50 (Daphnia magna (Water flea), 48 h): 28,8 mg/l

(2-hydroxy-4-

methoxyphenyl)phenyl-

mothanana

methanone

EC50 (Daphnia magna (Water flea), 24 h): 12,9 mg/l The product has low

solubility in the test medium. An aqueous dispersion was tested. The reported toxic effects relate to the nominal concentration.

#### Chronic hazards to the aquatic environment:

**Fish** 

**Product:** No data available.

Specified substance(s):

2-ethylhexyl acrylate NOEC (Salmo salar (Atlantic salmon), 21 d): 0,78 mg/l

**Aquatic Invertebrates** 

**Product:** No data available.

Specified substance(s):

2-ethylhexyl acrylate NOEC (Daphnia magna (Water flea), 21 d): 0,19 mg/l

EC 50 (Daphnia magna (Water flea), 21 d): 0,5 mg/l

1,4-butanediol dimethacrylate

EC 10 (Daphnia magna, 21 d): 7,51 mg/l

**Toxicity to Aquatic Plants** 

**Product:** No data available.

Specified substance(s):

Methyl methacrylate EC 50 (Selenastrum capricornutum (green algae), 72 h): > 100 mg/l

NOEC (Selenastrum capricornutum (green algae), 72 h): > 100 mg/l

2-ethylhexyl acrylate EC 50 (Desmodesmus subspicatus (green algae), 72 h): 14,6 mg/l

EC 50 (Desmodesmus subspicatus (green algae), 72 h): 1,71 mg/l EC 50 (Pseudokirchneriella subcapitata (green algae), 72 h): 3,55 mg/l

EC 50 (Desmodesmus subspicatus, 72 h): 5,28 mg/l

1,4-butanediol EC 50 (Desmodesmus subspicatus (green algae), 72 h): 9,79 mg/l Own

dimethacrylate study

N,N-bis-(2- EC 50 (Desmodesmus subspicatus (green algae), 72 h): 245 mg/l

hydroxypropyl)-p-

toluidine

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(2-hydroxy-4-

methoxyphenyl)phenyl-

methanone

EC 50 (Desmodesmus subspicatus (green algae), 72 h): 1,4 mg/l The product has low solubility in the test medium. An aqueous dispersion was tested. The reported toxic effects relate to the nominal concentration. EC 50 (Pseudokirchneriella subcapitata (green algae), 72 h): 0,41 mg/l NOEC (Pseudokirchneriella subcapitata (green algae), 72 h): 0,08 mg/l

#### Persistence and Degradability

**Biodegradation** 

**Product:** The product is biodegradable. (monomer constituent) (analogy)

**BOD/COD Ratio** 

**Product:** No data available.

Bioaccumulative potential

**Bioconcentration Factor (BCF)** 

**Product:** no specific test data available no evidence for hazardous properties

(structure-activity-relationships) (analogy)

Partition Coefficient n-octanol / water (log Kow)

**Product:** Log Kow: No data available.

Mobility in soil: no specific test data available

Other adverse effects: Prevent substance from entering soil, natural bodies of water and sewer

systems.

13. Disposal considerations

**Disposal methods:** Waste is hazardous. It must be disposed of in accordance with the

regulations after consultation of the competent local authorities and the

disposal company in a suitable and licensed facility.

Contaminated Packaging: Contaminated packaging should ideally be emptied; it can then be recycled

after having been decontaminated. Packaging that cannot be cleaned should be disposed of professionally. Uncontaminated packaging may be

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taken for recycling.

## 14. Transport information

#### International Regulations

**IATA-DGR** 

UN/ID No. : UN 1866

Proper shipping name : Resin solution STABILIZED

Class : 3
Packing group : II
Labels : 3
Packing instruction (cargo : 364

aircraft)

Packing instruction : 353



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#### (passenger aircraft)

#### **IMDG-Code**

UN number : UN 1866

Proper shipping name : RESIN SOLUTION STABILIZED

 Class
 : 3

 Packing group
 : II

 Labels
 : 3

 EmS Code
 : F-E, S-E

 Marine pollutant
 : no

# Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

#### Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

# 15. Regulatory information

# International regulations

#### **Montreal protocol**

Not applicable

#### Stockholm convention

Not applicable

#### **Rotterdam convention**

Not applicable

#### **Kyoto protocol**

Not applicable



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**Inventory Status:** 

Registration, Evaluation and Authorisation of

Chemicals (REACH):

preregistered, registered or exempted

US TSCA Inventory: On or in compliance with the inventory

Canada DSL Inventory List:

On or in compliance with the inventory

Canada NDSL Inventory: Not on Inventory.

Australia AICS: On or in compliance with the inventory

Japan (ENCS) List: On or in compliance with the inventory

Korea Existing Chemicals Inv. (KECI): On or in compliance with the inventory

Philippines PICCS: On or in compliance with the inventory

China Inv. Existing Chemical Substances: Included on Inventory.

# 16.Other information, including date of preparation or last revision

**Issue Date:** 20.09.2019

Version #: 1.2

**Further Information:** The product is normally supplied in a stabilized form. If the permissible

storage period and/or storage temperature is exceeded, the product may

polymerize with heat evolution.

**Revision Information:** Changes since the last version are highlighted in the margin. This version

replaces all previous versions.

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knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third party

intellectual property rights, especially patent rights. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar

products could not be used.