

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Ref. MA10000347/D

Rev. no. 1.4

StoProtect Transparent

Revision Date 21.06.2017

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SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Trade name StoProtect

1.2 Relevant identified uses of the substance or mixture and uses advised against

Auxiliary

Uses advised against

This information is not available.

1.3 Details of the supplier of the safety data sheet

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Ehrenbachstr. 1
D - 79780 Stühlingen
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Telefax: +49 7744 57 -2178
infoservice@sto.comE-mail address of person responsible for the SDS
European UnionSto SE & Co. KGaA
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1.4 Emergency telephone number European Union

Phone: +44 (0)1235 239 670

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Chronic aquatic toxicity, Category 3 H412: Harmful to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard statements	H412	Harmful to aquatic life with long lasting effects.
Precautionary statements	Prevention: P273 Disposal: P501	Avoid release to the environment. Contents/container to be disposed of through approved disposal contractor or taken to municipal collection point.

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Additional Labelling:

EUH208

Contains 1,2-benzisothiazol-3(2H)-one, mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1), bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate, methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate, 2-methyl-2H-isothiazol-3-one. May produce an allergic reaction.

For 2-Methyl-2H-Isothiazol-3-one (MIT), a labelling threshold of 15 ppm is voluntarily used in accordance with the CEPE recommendation (instead of 100 ppm).

Regulation concerning biocidal products (528/2012):

Contains 1,2-benzisothiazol-3(2H)-one, 2-methyl-2H-isothiazol-3-one, mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1). As active agents for storage protection in accordance with Biocidal Product Regulation (528/2012), Article 58(3)

2.3 Other hazards

Results of PBT and vPvB assessment
Not applicable

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Chemical nature

Sealing

Hazardous components

Chemical name	CAS-No. EC-No. Registration number	Classification (REGULATION (EC) No 1272/2008)	Concentration (% w/w)
2-butoxyethanol	111-76-2 203-905-0 01-2119475108-36-XXXX	Acute Tox.4; H332 Acute Tox.4; H312 Acute Tox.4; H302 Eye Irrit.2; H319 Skin Irrit.2; H315	≥ 1 - < 3
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	41556-26-7 255-437-1 01-2119491304-40-XXXX	Aquatic Chronic1; H410 Aquatic Acute1; H400 Skin Sens.1; H317	≥ 0,25 - < 1
methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	82919-37-7 280-060-4	Aquatic Chronic1; H410 Aquatic Acute1; H400 Skin Sens.1; H317	≥ 0,1 - < 0,25
1,2-benzisothiazol-3(2H)-	2634-33-5	Acute Tox.4; H302	≥ 0,025 - < 0,05

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one	220-120-9	Skin Irrit.2; H315 Eye Dam.1; H318 Skin Sens.1; H317 Aquatic Acute1; H400	
mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	55965-84-9	Acute Tox.2; H330 Acute Tox.2; H310 Acute Tox.3; H301 Skin Corr.1B; H314 Skin Sens.1; H317 Aquatic Acute1; H400 Aquatic Chronic1; H410	≥ 0,0002 - < 0,0015

For explanation of abbreviations see section 16.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General advice	In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and seek medical advice.
Inhalation	Remove to fresh air. Keep patient warm and at rest. If breathing is irregular or stopped, administer artificial respiration. If symptoms persist, call a physician.
Skin contact	Take off all contaminated clothing immediately. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners. If skin irritation persists, call a physician.
Eye contact	In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Seek medical advice.
Ingestion	Clean mouth with water and drink afterwards plenty of water. Do NOT induce vomiting. Obtain medical attention. Keep at rest.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment Treat symptomatically.
No information available.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

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Suitable extinguishing media	Alcohol-resistant foam Carbon dioxide (CO ₂) Dry chemical Water spray
Unsuitable extinguishing media	High volume water jet
5.2 Special hazards arising from the substance or mixture	Fire may cause evolution of: Carbon monoxide Carbon dioxide (CO ₂) Nitrogen oxides (NO _x) Exposure to decomposition products may be a hazard to health.
5.3 Advice for firefighters	Wear self-contained breathing apparatus for firefighting if necessary.
Additional advice	Use water spray to cool unopened containers. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures	Ensure adequate ventilation. Do not breathe vapour.
6.2 Environmental precautions	The product should not be allowed to enter drains, water courses or the soil. If the product contaminates rivers and lakes or drains inform respective authorities.
6.3 Methods and material for containment and cleaning up	Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Clean with detergents. Avoid solvents. Dispose of contaminated material as waste according to item 13. Clean contaminated surface thoroughly.
6.4 Reference to other sections	Refer to protective measures listed in sections 7 and 8.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Advice on safe handling	Avoid contact with skin and eyes. Prevent unauthorized access. Provide sufficient air exchange and/or exhaust in work rooms. Comply with the statutory regulations on health and safety at work.
Hygiene measures	Wash hands before breaks and at the end of workday. When using do not eat, drink or smoke. Remove and wash contaminated clothing and gloves, including the inside,

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before re-use.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers	Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store in original container. Observe label precautions. Protect from frost, heat and sunlight.
Advice on common storage	Keep away from oxidizing agents and strongly acid or alkaline materials.

7.3 Specific end use(s) For further information, see also Technical Data Sheet for the product.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Exposure limit(s)

Components		CAS-No.
Basis	Type:	Control parameters
2-butoxyethanol		111-76-2
2000/39/EC	Limit Value - eight hours	98 mg/m ³
2000/39/EC	Limit Value - eight hours	20 ppm
Additional advice:	Identifies the possibility of significant uptake through the skin Indicative	
2000/39/EC	Short term exposure limit	246 mg/m ³
2000/39/EC	Short term exposure limit	50 ppm
Additional advice:	Identifies the possibility of significant uptake through the skin Indicative	

The lists that were valid during the creation were used as basis.

8.2 Exposure controls

Appropriate engineering controls

Provide adequate ventilation.

Individual protection measures, such as personal protective equipment

- a) Eye/face protection
- Wear protective goggles for protection against splashed liquid.
 - Safety glasses with side-shields conforming to EN166
- b) Skin protection
- Hand protection
- Recommended preventive skin protection
 - Before starting work, apply water-resistant skincare preparations to

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exposed skin areas.
Protective gloves should be worn in case of skin contact during preparation and application.

Break through time: 480 min
Minimum thickness: 0,11 mm
Gloves made of nitrile rubber, e.g. KCL 740 Dermatril® (Kächele-Cama-Latex GmbH, Hotline: 0049(0)6659-87-300, kcl-uk@kcl.de), or equivalent. Cotton undergloves are recommendable when wearing protective gloves! Skin that comes into contact with the product should be treated with protective cream. After such contact, the product concerned should under no circumstances be used.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other.

Body Protection

Work clothes
Skin should be washed after contact.
Do NOT use solvents or thinners.

c) Respiratory protection

No personal respiratory protective equipment normally required. In case of insufficient ventilation, wear suitable respiratory equipment. Employees involved in spraying work or in the immediate vicinity of such work should use a P2 particle filter against spray fog. Respiratory protection complying with EN 143.

Environmental exposure controls

General advice

The product should not be allowed to enter drains, water courses or the soil.
If the product contaminates rivers and lakes or drains inform respective authorities.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	paste
Colour	white
Odour	Weak, characteristic
Odour Threshold	No data available
pH	ca. 8,0 - 9,5, 20 °C
Melting point/freezing point	Not applicable
Initial boiling point and boiling range	not applicable
Flash point	not applicable
Evaporation rate	not applicable

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Flammability (solid, gas)	not applicable
Lower explosion limit	No data available
Upper explosion limit	No data available
Vapour density	No data available
Density	ca. 1,02 g/cm ³ , 20 °C
Solubility(ies)(Water)	completely miscible
Partition coefficient: n-octanol/water	not determined
Auto-ignition temperature	not auto-flammable
Decomposition temperature	No data available
Viscosity, dynamic	ca. 1.900 mPa.s (20 °C)
Explosive properties	Not explosive
Oxidizing properties	Not applicable

9.2 Other information

Flow time	No data available
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SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions	This information is not available.
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10.4 Conditions to avoid

Conditions to avoid	Stable under recommended storage and handling conditions (see section 7).
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10.5 Incompatible materials

Materials to avoid	Strong acids and strong bases Strong oxidizing agents
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10.6 Hazardous decomposition products

Hazardous decomposition products	No decomposition if stored and applied as directed.
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Decomposition temperature

No data available

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Product

Acute oral toxicity	Acute toxicity estimate : > 2.000 mg/kg Method: Calculation method
Acute inhalation toxicity	Acute toxicity estimate : > 5 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method
Acute dermal toxicity	Acute toxicity estimate : > 2.000 mg/kg Method: Calculation method
Skin corrosion/irritation	Based on available data, the classification criteria are not met.
Serious eye damage/eye irritation	Based on available data, the classification criteria are not met.
Respiratory or skin sensitisation	Based on available data, the classification criteria are not met.
Germ cell mutagenicity	
Genotoxicity in vitro	Based on available data, the classification criteria are not met.
Carcinogenicity	Based on available data, the classification criteria are not met.
Reproductive toxicity	
Effects on fertility	Based on available data, the classification criteria are not met.
Developmental Toxicity	Based on available data, the classification criteria are not met.

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STOT - single exposure	Based on available data, the classification criteria are not met.
STOT - repeated exposure	Based on available data, the classification criteria are not met.
Aspiration hazard	Based on available data, the classification criteria are not met.
Further information	The product itself has not been tested. The mixture is classified in accordance with Annex I to EC Directive 1272/2008. (See sections 2 and 3 for details).

Components:

2-butoxyethanol :

Acute oral toxicity	LD50 Rat: 1.746 mg/kg Method: OECD Test Guideline 401
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Acute inhalation toxicity	Harmful if inhaled.
Acute dermal toxicity	Harmful in contact with skin.
Skin corrosion/irritation	Causes skin irritation.
Serious eye damage/eye irritation	Causes serious eye irritation.

bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate :

Respiratory or skin sensitisation	May cause an allergic skin reaction.
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methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate :

Respiratory or skin sensitisation	May cause an allergic skin reaction.
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1,2-benzisothiazol-3(2H)-one :

Acute oral toxicity	Harmful if swallowed.
Skin corrosion/irritation	Causes skin irritation.

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Serious eye damage/eye irritation Causes serious eye damage.

Respiratory or skin sensitisation May cause an allergic skin reaction.

mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) :

Acute oral toxicity Toxic if swallowed.

Acute inhalation toxicity Fatal if inhaled.

Acute dermal toxicity Fatal in contact with skin.

Skin corrosion/irritation Causes severe skin burns and eye damage.

Respiratory or skin sensitisation May cause an allergic skin reaction.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Product:

Toxicity to fish No data available

Components:

bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate :

Toxicity to fish LC50 (Lepomis macrochirus (Bluegill sunfish)): 0,97 mg/l
Exposure time: 96 h

M-Factor (Acute aquatic toxicity) 1

methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate :

Toxicity to fish LC50 (Brachydanio rerio (zebrafish)): 0,9 mg/l
Exposure time: 96 h
Test Type: semi-static test
Method: OECD Test Guideline 203

M-Factor (Acute aquatic toxicity) 1

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1,2-benzisothiazol-3(2H)-one :

Toxicity to fish	LC50 (Oncorhynchus mykiss (rainbow trout)): 1,6 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	EC50 (Daphnia (water flea)): 2,94 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae	EC50 (Selenastrum capricornutum (green algae)): 0,11 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
M-Factor (Acute aquatic toxicity)	1
Toxicity to microorganisms	EC50 (Pseudomonas putida): 0,4 mg/l Exposure time: 16 h

mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) :

Toxicity to fish	LC50 (Oncorhynchus mykiss (rainbow trout)): 0,19 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	EC50 (Daphnia (water flea)): 0,12 mg/l Exposure time: 48 h
Toxicity to algae	EC50 (Skeletonema costatum (marine diatom)): 0,0052 mg/l Exposure time: 48 h NOEC (Skeletonema costatum (marine diatom)): 0,00049 mg/l Exposure time: 48 h
M-Factor (Acute aquatic toxicity)	100
Toxicity to fish (Chronic toxicity)	NOEC: 0,098 mg/l Exposure time: 28 d Species: Oncorhynchus mykiss (rainbow trout) Method: OECD Test Guideline 210
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	NOEC: 0,004 mg/l Exposure time: 21 d Species: Daphnia (water flea)
M-Factor (Chronic aquatic toxicity)	100

12.2 Persistence and degradability

Product:

Biodegradability No data available

Components:

methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate :

Biodegradability Not biodegradable.

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1,2-benzisothiazol-3(2H)-one :

Biodegradability Result: rapidly degradable
Biodegradation: > 90 %
Method: OECD Test Guideline 303A

mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) :

Biodegradability Result: not rapidly degradable

12.3 Bioaccumulative potential

Product:

Bioaccumulation No data available

Components:

methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate :

Partition coefficient: n-octanol/water Pow: 2,37 (20 - 25 °C) Method: OECD Test Guideline 107

1,2-benzisothiazol-3(2H)-one :

Partition coefficient: n-octanol/water log Pow: 0,4

12.4 Mobility in soil

Product:

Mobility No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

Product:

Additional ecological information Do not allow product to enter into ground water, bodies of water or sewage systems. Harmful to aquatic life with long lasting effects.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product The user is responsible for proper coding and marking of any waste. When used as recommended, the waste code can be selected according to the code of the European Waste Catalogue (EWC), category 17.09 "Other Construction and Demolition Waste"
Allow plaster residues to dry, or thicken with cementitious binders.

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Contaminated packaging

Waste key for the unused product

Unhardened product residues should be disposed of under the recommended waste code number.

Packaging that is not properly emptied must be disposed of as the unused product.
Empty packaging should be recycled through disposal systems.

08 01 11*: Paint and varnish waste containing organic solvents or other dangerous substances

: (*) hazardous waste in terms of the European directive 91/689/EEC

SECTION 14: TRANSPORT INFORMATION

14.1 UN number

Not regulated as a dangerous good

14.2 UN proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class(es)

Not regulated as a dangerous good

14.4 Packing group

Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Remarks

This information is not available.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Remarks

Not applicable

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Directive 2010/75/EU

4,0 %
40,9 g/l

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ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Other information

It is possible in the interim period that you may find different markings on packaging compared to the Material Safety Data Sheet until stocks have been used up. We ask for your understanding in this matter.

Department issuing MSDS

Department TIQS Sto SE & Co. KGaA Stühlingen, Germany
e.volz@sto.com

Product code
REG_EU / EN

PROD0956

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