



Certificate of Analysis

Batch Number: 4420008 Expiry Date: January 2024

Characteristic Method	Unit	Value	Lower Limit	Upper Limit
Appearance		clear liquid		
Colour		colourless		
Odour		characteristic		
Density at 20°C Ph. Eur. 2.2.5.			1.087	1.092
Refractive index at 20°C Ph. Eur. 2.2.6.		1.529	1.522	1.534
Colour index (Hazen) C 01-01-04		5		50
Phenoxyethanol C 01-31-01	%	89.9	88.5	91.5
Ethylhexylglycerin C 01-31-01	%	10.1	8.5	11.5
Phenol (from raw material)	ppm	< 10		10
Synth. Tocopherol (from raw material)		OK		

This certificate of analysis has been printed through an EDP-System and is therefore unsigned.

***End of certificate of analysis ***



Technical Support Department

Personal Care

Plantaserve E – absence of Food Allergens

This is to declare, that our product Plantaserve E used as a cosmetic preservative does not contain substances or products causing allergies or intolerances according to Annex II of Regulation EU 1169/2011 food information to consumers according to its recipe.

This includes the following substances:

- celery
- cereals containing gluten – including wheat (such as spelt and Khorasan), rye, barley and oats
- crustaceans – such as prawns, crabs and lobsters
- eggs
- fish
- lupin
- milk
- molluscs – such as mussels and oysters
- mustard
- tree nuts – including almonds, hazelnuts, walnuts, brazil nuts, cashews, pecans, pistachios and macadamia nuts
- peanuts
- sesame seeds
- soybeans
- sulphur dioxide and sulphites (if they are at a concentration of more than ten parts per million)

Furthermore they are not added at any stage of the production of euxyl® PE 9010

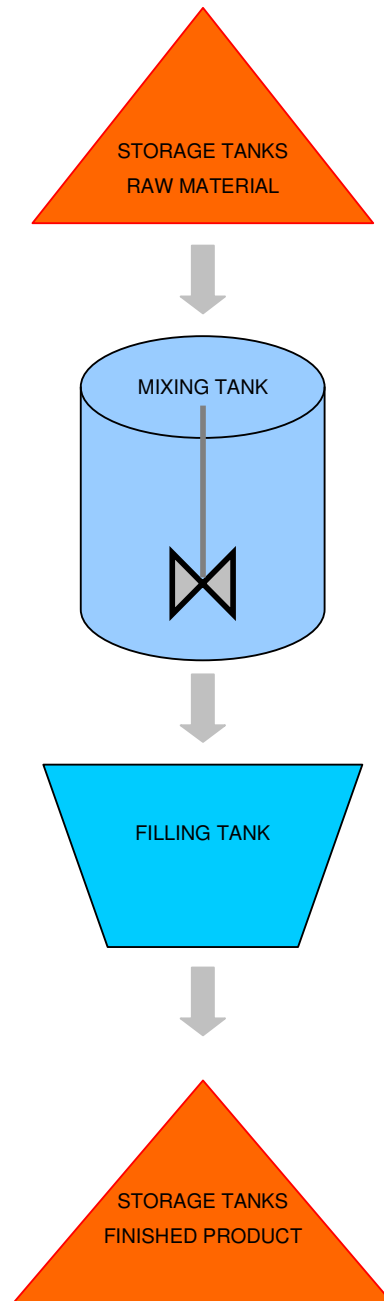
Please contact us if you need further information on our products and services.

12 May 2020

The information is to the best of our knowledge and no claims are made as to its completeness. The facts contained herein are based on our own examinations or have been provided to us by our suppliers and shall only be read as a comprehensive description of the quality of the respective product. Nothing herein shall be interpreted as a guarantee or whatsoever.

- This information is not automatically updated -

Manufacturing Process Plantaserve E





Declaration for Plantaserve E– Certificate of Origin

This is to declare that **Plantaserve E** is manufactured exclusively by Schülke & Mayr GmbH in Germany by using synthetic* raw materials only. No raw material of animal** or plant origin is used for the production nor does it come into contact with materials of animal or plant origin during its manufacturing processes. Thus no GMO (Genetically Modified Organisms) or BSE (Bovine Spongiform Encephalopathy) are present in the product.

Please contact us if you need further information on our products and services.

*!The compounds used to make these materials come from petroleum-based chemicals.

** The word “animal” is understood to refer to the entire Animal Kingdom, that is all vertebrates and all multi-cellular invertebrates.

7 July 2020

The information is to the best of our knowledge and has been compiled with the utmost reasonable care and no claims are made as to its completeness. The facts contained herein are based on our own examinations or have been provided to us by our suppliers and shall only be read as a comprehensive description of the quality of the respective product. Nothing herein shall be interpreted as a guarantee or whatsoever.

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SAFETY DATA SHEET
Plantaserve E

Version
05.00

Revision Date:
21.03.2016

Date of last issue: 23.02.2016
Date of first issue: 04.01.2008

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name : Plantaserve E

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

Use of the Sub- : Preservative for cosmetics & toiletries
stance/Mixture

1.3 Details of the supplier of the safety data sheet

Supplier : Madar Corporation Limited

19 - 20 Sandleheath Industrial Estate
Fordingbridge
SP6 1PA
01425 655 555
techniical@madarcorporation.co.uk

1.4 Emergency telephone number UK Poisons Emergency number: 0870 600 6266

Emergency telephone num- :
ber
Emergency telephone num- :
ber

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Serious eye damage, Category 1 H318: Causes serious eye damage.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



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according to Regulation (EC) No. 1907/2006

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Signal word	: Danger	
Hazard statements	: H318	Causes serious eye damage.
Precautionary statements	: P280 P305+P351+P338 P310	Wear eye protection/ face protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

Hazardous components which must be listed on the label:

70445-33-9 3-(2-ethylhexyloxy)propane-1,2-diol

2.3 Other hazards

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.

SECTION 3: Composition/Information on ingredients**3.2 Mixtures**

Chemical nature : solution

Hazardous components

Chemical name	Index-Number CAS-No. EC-No. Registration number	Classification	Concentration (% w/w)
2-Phenoxyethanol	603-098-00-9 122-99-6 204-589-7 01-2119488943-21-XXXX	Acute Tox. 4; H302 Eye Irrit. 2; H319	88,5 - 91,5
3-(2-ethylhexyloxy)propane-1,2-diol	603-168-00-9 70445-33-9 408-080-2 01-0000015745-65-0001	Eye Dam. 1; H318 Acute Tox. 4; H332 Aquatic Chronic 3; H412	8,5 - 11,5

For explanation of abbreviations see section 16.

SECTION 4: First aid measures**4.1 Description of first aid measures**

General advice	: Take off all contaminated clothing immediately.
If inhaled	: If symptoms persist, call a physician.
In case of skin contact	: Wash off immediately with plenty of water.
In case of eye contact	: In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
If swallowed	: Obtain medical attention.

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4.2 Most important symptoms and effects, both acute and delayed

Symptoms	: Risk of serious damage to eyes.,
Risks	: No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment	: No information available.
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SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	: Water, Dry powder, Foam, Carbon dioxide (CO ₂)
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Unsuitable extinguishing media	: No information available.
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5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting	: No information available.
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Specific risk from the substance or the product itself, its combustion products or evolved gases	: Decomposition products, see chapter 10
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5.3 Advice for firefighters

Further information	: Standard procedure for chemical fires.
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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	: Use personal protective equipment.
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6.2 Environmental precautions

Environmental precautions	: Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration.
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6.3 Methods and material for containment and cleaning up

Methods for cleaning up	: Wipe up with absorbent material (e.g. cloth, fleece). Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
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6.4 Reference to other sections

see Section 8 + 13	
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SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling	: Handle and open container with care.
Advice on protection against fire and explosion	: No special protective measures against fire required.
Hygiene measures	: Take off all contaminated clothing immediately.

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Date of first issue: 04.01.2008**7.2 Conditions for safe storage, including any incompatibilities**

Requirements for storage areas and containers : Store in original container.

Further information on storage conditions : Keep away from direct sunlight. Limited stability - see label on pack. Keep container tightly closed.

Advice on common storage : Keep away from food and drink.

7.3 Specific end use(s)

Specific use(s) : none

SECTION 8: Exposure controls/personal protection**8.1 Control parameters****Occupational Exposure Limits**

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
2-Phenoxyethanol	122-99-6	Permissible exposure limit	20 ppm 110 mg/m ³	TRGS 900
		Ceiling Limit Value	40 ppm 220 mg/m ³	TRGS 900

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
2-Phenoxyethanol	Workers	Inhalation	Long-term systemic effects, Long-term local effects	8,07 mg/m ³
	Workers	Skin contact	Long-term systemic effects	34,72 mg/kg
	Consumers	Inhalation	Long-term exposure, Short-term exposure, Local effects	2,5 mg/m ³
	Consumers	Skin contact	Long-term local effects	20,83 mg/kg
	Consumers	Ingestion	Short-term exposure, Long-term exposure, Systemic effects	17,43 mg/kg

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
2-Phenoxyethanol	Fresh water	0,943 mg/l
	Marine water	0,0943 mg/l
	Fresh water sediment	7,2366 mg/kg
	Marine sediment	0,7237 mg/kg
	Soil	1,26 mg/kg
	Intermittent use/release	3,44 mg/l

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	Sewage treatment plant	24,8 mg/l
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8.2 Exposure controls**Personal protective equipment**

- Eye protection : Safety glasses with side-shields conforming to EN166
- Hand protection : Impervious gloves
 Splash protection: disposable nitrile rubber gloves e.g. Dermatril (layer thickness: 0,11 mm) made by KCL or gloves from other manufacturers offering the same protection. Prolonged contact: Butyl rubber gloves e.g. Butoject (>480 Min., layer thickness: 0,70 mm) made by KCL or gloves from other manufacturers offering the same protection.
- Skin and body protection : Choose body protection according to the amount and concentration of the dangerous substance at the work place.
- Protective measures : Avoid contact with skin and eyes.

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

- Appearance : Liquid
- Colour : nearly colourless
- Odour : characteristic
- Odour Threshold : not determined
- pH : 6 - 8, Concentration: 10 g/l, 20 °C
- Freezing point : ca. 5 °C
- Boiling point/boiling range : > 100 °C
- Flash point : > 100 °C, ISO 2719
- Evaporation rate : not determined
- Flammability (solid, gas) : Not applicable
- Upper explosion limit : Not applicable
- Lower explosion limit : Not applicable
- Vapour pressure : not determined
- vapour density : not determined
- Density : ca. 1,0871 - 1,0923 g/ml, 20 °C
- Solubility(ies)
- Water solubility : 10 g/l, 20 °C
- Partition coefficient: n-octanol/water : Not applicable
- Auto-ignition temperature : Not applicable
- Viscosity
- Viscosity, dynamic : 28 mPa*s, Rheo WIN RS 600
- Flow time : < 15 s at 20 °C, DIN 53211
- Explosive properties : Not explosive
- Oxidizing properties : The substance or mixture is not classified as oxidizing.

9.2 Other information

- Surface tension : 34 mN/m
- Refractive index : 1,522 - 1,534 at 20 °C

SECTION 10: Stability and reactivity

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10.1 Reactivity

Stable under recommended storage conditions.

10.2 Chemical stability

No decomposition if stored normally.

10.3 Possibility of hazardous reactions

None reasonably foreseeable.

10.4 Conditions to avoid

Protect from frost, heat and sunlight.

10.5 Incompatible materials

No data available,

10.6 Hazardous decomposition products

None reasonably foreseeable.

SECTION 11: Toxicological information**11.1 Information on toxicological effects****Acute toxicity****Components:****2-Phenoxyethanol:**

Acute oral toxicity : LD50 (Rat): 1850 mg/kg, Harmful if swallowed.
 Acute inhalation toxicity : (Rat): 8 h, An LC50/ inhalation could not be determined because no mortality of rats was observed at the maximum achievable concentration.
 Acute dermal toxicity : LD50: > 2000 mg/kg, Based on available data, the classification criteria are not met.

3-(2-ethylhexyloxy)propane-1,2-diol:

Acute oral toxicity : LD50 (Rat): > 2000 mg/kg, OECD Test Guideline 401, Based on available data, the classification criteria are not met.
 Acute inhalation toxicity : LC50 (Rat): 3,07 mg/l, OECD Test Guideline 403, Harmful if inhaled.
 Acute dermal toxicity : LD50 (Rat): > 2000 mg/kg, OECD Test Guideline 402, Based on available data, the classification criteria are not met.

Skin corrosion/irritation**Components:****2-Phenoxyethanol:**

Rabbit, OECD Test Guideline 404, No skin irritation

3-(2-ethylhexyloxy)propane-1,2-diol:

OECD Test Guideline 404, slight irritation, Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation**Components:****2-Phenoxyethanol:**

Rabbit, Causes serious eye irritation., OECD Test Guideline 405

3-(2-ethylhexyloxy)propane-1,2-diol:

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OECD Test Guideline 405, Risk of serious damage to eyes., concentrate

Respiratory or skin sensitisation**Components:****2-Phenoxyethanol:**

Did not cause sensitisation on laboratory animals. Maximisation Test, Guinea pig, OECD Test Guideline 406

3-(2-ethylhexyloxy)propane-1,2-diol:

Did not cause sensitisation on laboratory animals. OECD Test Guideline 406

Germ cell mutagenicity**Components:****2-Phenoxyethanol:**

Germ cell mutagenicity- Assessment : Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

3-(2-ethylhexyloxy)propane-1,2-diol:

Genotoxicity in vitro : OECD Test Guideline 471, Not mutagenic in Ames Test

Genotoxicity in vivo : OECD 474, Micronucleus test: not mutagenic

Carcinogenicity**Components:****2-Phenoxyethanol:**

Carcinogenicity - Assessment : No data available

Reproductive toxicity**Components:****2-Phenoxyethanol:**

Reproductive toxicity - Assessment : Animal testing did not show any effects on fertility.

3-(2-ethylhexyloxy)propane-1,2-diol:

Effects on foetal development : Rat, Oral, NOAEL: 800 mg/kg, OECD Test Guideline 414, Based on available data, the classification criteria are not met.

STOT - single exposure**Components:****2-Phenoxyethanol:**

Based on available data, the classification criteria are not met.

STOT - repeated exposure**Components:****2-Phenoxyethanol:**

No data available

Repeated dose toxicity**Components:****2-Phenoxyethanol:**

Rat, NOAEL: 400 mg/kg, Oral, Based on available data, the classification criteria are not met.

3-(2-ethylhexyloxy)propane-1,2-diol:

Rat, NOAEL: 100 mg/kg, Oral, 28-day, OECD Test Guideline 407, Based on available data, the classification criteria are not met.

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Rat, NOAEL: 50 mg/kg, Oral, 90-day

Aspiration toxicity

No data available

SECTION 12: Ecological information**12.1 Toxicity****Components:****2-Phenoxyethanol:**

Toxicity to fish	: LC50 (Leuciscus idus (Golden orfe)): > 100 mg/l, 96 h
Toxicity to daphnia and other aquatic invertebrates	: EC50 : > 500 mg/l, 48 h
Toxicity to algae	: EC50 (Desmodesmus subspicatus (green algae)): > 500 mg/l, 72 h
Toxicity to fish (Chronic toxicity)	: NOEC: 23 mg/l , 34 d, Pimephales promelas (fathead minnow)
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: NOEC: 9,43 mg/l , 21 d, Daphnia magna (Water flea)

3-(2-ethylhexyloxy)propane-1,2-diol:

Toxicity to fish	: LC50 (Brachidanio rerio): 60,2 mg/l
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna): 78,3 mg/l, 48 h
Toxicity to algae	: IC50 (Desmodesmus subspicatus (green algae)): 48,3 mg/l, 72 h
Toxicity to fish (Chronic toxicity)	: NOEC: 1,5 mg/l , 35 d, Brachidanio rerio, OECD Test Guideline 210
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: NOEC: 20 mg/l , 21 d, Daphnia magna (Water flea), OECD Test Guideline 211
Toxicity to bacteria	: EC50 : 560 mg/l , OECD 209

12.2 Persistence and degradability**Components:****2-Phenoxyethanol:**

Biodegradability	: Biodegradation: 90 - 100 %, Exposure time: 15 d, OECD Test Guideline 301A, According to the results of tests of biodegradability this product is considered as being readily biodegradable.
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3-(2-ethylhexyloxy)propane-1,2-diol:

Biodegradability	: According to OECD criteria, the product is inherently biodegradable., OECD 302B/ ISO 9888/ EEC 88/302C
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12.3 Bioaccumulative potential**Components:****2-Phenoxyethanol:**

Bioaccumulation	: Bioconcentration factor (BCF): 0,35, No bioaccumulation is to be expected (log Pow <= 4).
Partition coefficient: n-octanol/water	: log Pow: 1,16

3-(2-ethylhexyloxy)propane-1,2-diol:

Partition coefficient: n-octanol/water	: log Pow: 2,53
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12.4 Mobility in soil

Product:

Mobility : No data available

Components:**2-Phenoxyethanol:**

Mobility : Mobile in soils

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:

Adsorbed organic bound halogens (AOX) : Product does not contain any organic halogens.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Dispose of as hazardous waste in compliance with local and national regulations. The product should not be allowed to enter drains, water courses or the soil.

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.

Waste key for the unused product(Group) : The waste producer itself must, in consultation with the appropriate authorities and a waste disposal company, obtain a waste code from the EWC (European Waste Catalogue)

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

For personal protection see section 8.

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

Not applicable for product as supplied.

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SECTION 15: Regulatory information

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

- Legislation on the control of major-accident hazards involving dangerous substances : Directive 96/82/EC does not apply
- Volatile organic compounds : none, Directive 2010/75/EC on the limitation of emissions of volatile organic compounds

15.2 Chemical safety assessment

Exempt

SECTION 16: Other information

Full text of H-Statements

- H302 : Harmful if swallowed.
- H318 : Causes serious eye damage.
- H319 : Causes serious eye irritation.
- H332 : Harmful if inhaled.
- H412 : Harmful to aquatic life with long lasting effects.

Full text of other abbreviations

- Acute Tox. : Acute toxicity
- Aquatic Chronic : Chronic aquatic toxicity
- Eye Dam. : Serious eye damage
- Eye Irrit. : Eye irritation

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, Bioaccumu-

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lative 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

|| Changes compared with the previous edition!!!

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.