

Version: 3.3	Revision Date: 18.04.2017
SECTION 1: Identification of the	substance/mixture and of the company/undertaking
1.1 Product identifier	
Trade name :	Basfoliar inicial 26-10-10
1.2 Relevant identified uses of the s	substance or mixture and uses advised against
Use of the Sub- : stance/Mixture	Fertilizer
1.3 Details of the supplier of the saf	fety data sheet
Company :	COMPO EXPERT GmbH
	Kroegerweg 10 D-48155 Münster
Telephone :	+49 (0) 251 29 79 81 – 000
Telefax :	+49 (0) 251 29 79 81 - 111
E-mail address of person : responsible for the SDS	info@compo-expert.com
1.4 Emergency telephone number	
Quality / Safety / Environment Telephone:+49 (0) 2151 - 579 -	0
SECTION 2: Hazards identification	on
2.1 Classification of the substance	or mixture
Classification (REGULATION (I	EC) No 1272/2008)
Eye irritation, Category 2	H319: Causes serious eye irritation.

Eye irritation, Category 2		H3	319: Caus	ses serious		
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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 pictograms	:	
Signal word	:	Warning
Hazard statements	:	H319 H412

Causes serious eye irritation. Harmful to aquatic life with long lasting effects.



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Precautionary statements : F

:	P101	If medical advice is needed, have product container or label at hand.
	P102	Keep out of reach of children.
	Prevention:	
	P270	Do not eat, drink or smoke when using this product.
	P280	Wear protective gloves/ eye protection/ face protection.
	Response:	
	P305 + P351 + P3	38 IF IN EYES: Rinse cautiously with wa- ter for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P337 + P313	If eye irritation persists: Get medical advice/ attention.

2.3 Other hazards

None known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Mixture of nutrient salts based on various inorganic salts	Chemical nature
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trace elements as Metal chelate

Chemical Name	CAS-No. EC-No. Registration number	Classification	Concentration (% w/w)
potassium nitrate	7757-79-1 231-818-8 01-2119488224-35- XXXX	Ox. Sol. 3; H272	>= 10 - <= 25
Boric acid	11113-50-1 234-343-4 01-2119486683-25- XXXX	Repr. 1B; H360FD	<= 0,5
zinc sulphate	7733-02-0 231-793-3 01-2119474684-27- XXXX	Acute Tox. 4; H302 Eye Dam. 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 1 - <= 2,2

Hazardous components



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manganese sulphate	7785-87-7 232-089-9 01-2119456624-35- XXXX	STOT RE 2; H373 Aquatic Chronic 2; H411	>= 1 - <= 2,85
disodium [[N,N'-ethylenebis[N- (carboxymethyl)glycinato]](4-)- N,N',O,O',ON,ON']cuprate(2-)	14025-15-1 237-864-5 01-2119963944-23- 0002	Acute Tox. 4; H302 Eye Irrit. 2; H319	<= 0,5

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice	: Take off immediately all contaminated clothing.	
If inhaled	 Keep patient calm, remove to fresh air, seek medical attention. If unconscious place in recovery position and seek medical advice. 	
In case of skin contact	: Wash thoroughly with soap and water.	
In case of eye contact	: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.	
If swallowed	: Clean mouth with water and drink afterwards plenty of water.	
2 Most important symptoms and effects, both acute and delayed		

4.2

Symptoms :	No information available.
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4.3 Indication of any immediate medical attention and special treatment needed Treatment : No information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media		
Suitable extinguishing media	Wa Wa	ter ter spray
5.2 Special hazards arising from the substance or mixture		

Specific hazards during fire- : In the event of fire and/or explosion do not breathe fumes.

fighting

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5.3 Advice for firefighters	
Special protective equipment for firefighters	: In the event of fire, wear self-contained breathing apparatus.
Further information	: Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
SECTION 6: Accidental releas	e measures
6.1 Personal precautions, protect	ive equipment and emergency procedures
Personal precautions	: Avoid contact with eyes.
6.2 Environmental precautions	
Environmental precautions	: Do not empty into drains. Retain and dispose of contaminated wash water.
6.3 Methods and material for con	tainment and cleaning up
Methods for cleaning up	: Use mechanical handling equipment.
6.4 Reference to other sections none SECTION 7: Handling and stor	rage
7.1 Precautions for safe handling	
Advice on safe handling	: No special measures necessary if stored and handled as pre- scribed.
Advice on protection against fire and explosion	: No special precautions required.
Hygiene measures	: At the end of the shift the skin should be cleaned and skin- care agents applied.
7.2 Conditions for safe storage, i	ncluding any incompatibilities
Requirements for storage areas and containers	: Keep away from heat. Keep away from sources of ignition - No smoking. Keep away from direct sunlight. Keep away from combustible material. Protect from contamination. Protect against humidity (product is hygroscopic and tends to cake or disintegrate)
Storage class (TRGS 510)	: 11, Combustible Solids
7.3 Specific end use(s)	
Specific use(s)	: Always read the label and product information before use.



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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

<u> </u>						
Components	CAS-No.		e type (Form posure)	Control	parameters	Basis
Boric acid		TWA		2,6 mg	/m3	DE TRGS 900
		STEL	-	5,2 mg	/m3	DE TRGS 900
				0,5 mg	/m3	
manganese sul- phate		(Inha tion)	alable frac-	0,5 mg	/m3	DE TRGS 900
Further information	Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission)., The threshold value is based on the ele- ment content of the corresponding metal., When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child					
				0,5 mg	/m3	
none Mangansulfat	7785-8 7785-8		manganese: (Blood)	20 µg/l	Immediately after exposition or after working hours, In case of long-term exposition: after more than one shift	TRGS 903

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

Substance name	End Use	Exposure routes	Potential health ef- fects	Value
potassium nitrate	Workers	Inhalation	Systemic effects	36,7 mg/m3
	Workers	Skin contact	Systemic effects	20,8 mg/kg
Remarks:	Exposure time:	1 d		
	Consumers	Ingestion	Systemic effects	12,5 mg/kg
Remarks:	Exposure time: 1 d			
	Consumers	Skin contact	Systemic effects	12,5 mg/kg
Remarks:	Exposure time:	1 d		
	Consumers	Inhalation	Systemic effects	10,9 mg/m3
Boric acid	Workers	Inhalation	Long-term exposure, Systemic effects	8,28 mg/m3
	Workers	Skin contact	Long-term exposure, Systemic effects	392 mg/kg
	Consumers	Ingestion	Short-term exposure,	0,98 mg/kg



			Systemic effects	
Co	onsumers	Ingestion	Long-term exposure, Systemic effects	0,98 mg/kg
Co	onsumers	Inhalation	Long-term exposure, Systemic effects	4,15 mg/m3
Co	onsumers	Skin contact	Long-term exposure, Systemic effects	196 mg/kg

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

Substance name	Environmental Compartment	Value
potassium nitrate	Fresh water	0,45 mg/l
	Marine water	0,045 mg/l
	Ceiling Limit Value	4,5 mg/l
	Sewage treatment plant	18 mg/l

8.2 Exposure controls

Personal protective equipment

Hand protection

Remarks

: Protective gloves The selection of suitable depends upon the material, and also upon the quality of the gloves. The degree of protection will vary from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Respiratory protection : Breathing apparatus only if aerosol or dust is formed.

Environmental exposure controls

General advice	: Do not empty into drains.
	Retain and dispose of contaminated wash water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	: granular
Colour	: light grey
Odour	: slight, stinging
Odour Threshold	: No data available
рН	: ca. 5, Concentration: 100 g/l (20 °C)
Melting point/range	: 155 °C



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Boiling point/boiling range	: Not applicable
Flash point	: No data available
Evaporation rate	: Not applicable
Flammability (solid, gas)	: not readily ignited
Upper explosion limit	: Not applicable
Lower explosion limit	: Not applicable
Vapour pressure	: Not applicable
Relative vapour density	: Not applicable
Relative density	: No data available
Bulk density	: ca. 1.100 kg/m³
Solubility(ies) Water solubility	: soluble
Partition coefficient: n- octanol/water	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: ca. 155 °C To avoid thermal decomposition, do not overheat.
Viscosity Viscosity, dynamic	: Not applicable
Explosive properties	: Not explosive
Oxidizing properties	: Not considered an oxidizing substance

9.2 Other information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

10.2 Chemical stability

No decomposition if stored and applied as directed.



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10.3 Possibility of hazardous re	actions
Hazardous reactions	: Hazardous decomposition products formed under fire condi- tions.
10.4 Conditions to avoid	
Conditions to avoid	: To avoid thermal decomposition, do not overheat.
10.5 Incompatible materials	
Materials to avoid	: Strong oxidizing agents
10.6 Hazardous decomposition	products
Hazardous decomposition products	: Nitrose gases

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute	toxicity
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Product: Acute oral toxicity	: LD50 (Rat): > 2.000 mg/kg
Components:	
potassium nitrate: Acute oral toxicity	: LD50 (Rat): > 2.000 mg/kg
Acute inhalation toxicity	: LC50 (Rat): 0,527 mg/l
Acute dermal toxicity	: LD50 (Rat): > 5.000 mg/kg
Boric acid: Acute oral toxicity	: LD50 (Mouse): 3.450 mg/kg
	LD50 (Rat): 2.660 mg/kg
Acute inhalation toxicity	: LC50 (Rat): 2 mg/l
Acute dermal toxicity	: LD50 Dermal (Rabbit): > 2.000 mg/kg
zinc sulphate: Acute oral toxicity	: LD50 (Rat): 862 - 4.429 mg/kg
Acute dermal toxicity	: LD50 Dermal (Rat): > 2.000 mg/kg
manganese sulphate: Acute oral toxicity	: LD50 (Rat): 2.150 mg/kg



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disodium [[N,N'-ethylenebis Acute oral toxicity	[N-(carboxymethyl)glycinato]](4-)-N,N',O,O',ON,ON']cuprate(2-): : LD50 (Rat): 890 mg/kg
Acute inhalation toxicity	: LC50 (Rat): 5,32 mg/l Exposure time: 4 h Method: OECD Test Guideline 436
Skin corrosion/irritation	
<u>Product:</u> Remarks: May irritate skin.	
Components:	

potassium nitrate: Species: Rabbit Result: No skin irritation

Result: No skin irritation

Boric acid: Species: Rabbit Result: No skin irritation

zinc sulphate:

Species: Rabbit Assessment: Irritating to skin.

disodium [[N,N'-ethylenebis[N-(carboxymethyl)glycinato]](4-)-N,N',O,O',ON,ON']cuprate(2-):

Remarks: slight irritation According to the classification criteria of the European Union, the product is not considered as being a skin irritant.

Serious eye damage/eye irritation

Product:

Remarks: May irritate eyes.

Components:

potassium nitrate: Species: Rabbit Result: No eye irritation

Boric acid:

Species: Rabbit Method: OECD Test Guideline 405 Result: No eye irritation

zinc sulphate:

Species: Rabbit Result: Risk of serious damage to eyes.



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disodium [[N,N'-ethylenebis[N-(carboxymethyl)glycinato]](4-)-N,N',O,O',ON,ON']cuprate(2-): Method: OECD Test Guideline 405 Result: Eye irritation

Respiratory or skin sensitisation

Product:

Result: non-sensitizing

Components:

potassium nitrate: Result: non-sensitizing

Boric acid:

Method: OECD Test Guideline 406 Result: non-sensitizing

disodium [[N,N'-ethylenebis[N-(carboxymethyl)glycinato]](4-)-N,N',O,O',ON,ON']cuprate(2-): Method: OECD Test Guideline 429

Result: non-sensitizing

Germ cell mutagenicity

Product:

Genotoxicity in vitro : Remarks: Contains no hazardous ingredients according to GHS

Components:

potassium nitrate: Genotoxicity in vitro	:	Remarks: No data available
Boric acid: Genotoxicity in vitro	:	Test Type: Mammalian cell gene mutation assay Result: Mutagenicity tests revealed no genotoxic potential. Remarks: In vitro tests did not show mutagenic effects
Germ cell mutagenicity- As- sessment	:	Tests on bacterial or mammalian cell cultures did not show mutagenic effects.
disodium [[N,N'-ethylenebis[N-(carboxymethyl)glycinato]](4-)-N,N',O,O',ON,ON']cuprate(2-):Genotoxicity in vitro: Test Type: Ames test Method: OECD Test Guideline 471 Result: Mutagenicity tests revealed no genotoxic potential.		
Carcinogenicity		

Product:



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Remarks: Contains no ingredient listed as a carcinogen

Components:

potassium nitrate:

Remarks: Did not show carcinogenic effects in animal experiments.

Boric acid:

Species: Rat Application Route: Oral Method: OECD Test Guideline 451 Remarks: Animal testing did not show any carcinogenic effects.

disodium [[N,N'-ethylenebis[N-(carboxymethyl)glycinato]](4-)-N,N',O,O',ON,ON']cuprate(2-): Remarks: Animal testing did not show any carcinogenic effects.

Reproductive toxicity

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Effects on fertility	Remarks: No toxicity to reproduction	
Effects on foetal develop- ment	Remarks: Contains no ingredient listed as toxic to reproduc- tion	
Components: potassium nitrate: Effects on fertility	Remarks: No toxicity to reproduction	
Effects on foetal develop- ment	Remarks: Did not show teratogenic effects in animal experi- ments.	
Boric acid: Effects on foetal develop- ment	Remarks: Animal ingestion studies in several species, at high doses, indicate that borates cause reproductive and develop-mental effects.	
Reproductive toxicity - As- sessment	May damage fertility. May damage the unborn child.	
disodium [[N,N'-ethylenebis[N-(carboxymethyl)glycinato]](4-)-N,N',O,O',ON,ON']cuprate(2-):		
Effects on fertility	Remarks: No toxicity to reproduction	
Effects on foetal develop- ment	Remarks: Did not show teratogenic effects in animal experi- ments.	



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STOT - single exposure

Product:

Assessment: The substance or mixture is not classified as specific target organ toxicant, single exposure.

Components:

potassium nitrate:

Assessment: The substance or mixture is not classified as specific target organ toxicant, single exposure.

disodium [[N,N'-ethylenebis[N-(carboxymethyl)glycinato]](4-)-N,N',O,O',ON,ON']cuprate(2-): Assessment: The substance or mixture is not classified as specific target organ toxicant, single exposure.

STOT - repeated exposure

Product:

Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Components:

potassium nitrate:

Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

disodium [[N,N'-ethylenebis[N-(carboxymethyl)glycinato]](4-)-N,N',O,O',ON,ON']cuprate(2-): Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Repeated dose toxicity

Components:

potassium nitrate: Species: Rat NOAEL: >= 1.500 mg/kg Exposure time: 1 d

Further information

Product:

Remarks: The product was not tested. The statement was derived from products of similar structure and composition.

SECTION 12: Ecological information



Boric acid: Biodegradability COMPO EXPERT®

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12.1 Toxicity	
Components:	
potassium nitrate:	
Toxicity to fish	: LC50 (Fish): > 100 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): 490 mg/l Exposure time: 48 h
Toxicity to algae	: LC50 : >= 1.700 mg/l Exposure time: 10 d
zinc sulphate:	
Toxicity to fish	: LC50 (Oncorhynchus mykiss (rainbow trout)): 0,43 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): 1,86 mg/l Exposure time: 48 h
Toxicity to algae	: EC50 (Scenedesmus quadricauda (Green algae)): 0,52 mg/l Exposure time: 120 h
Toxicity to bacteria	: EC50 (Bacteria): 22,75 mg/l Exposure time: 0,5 h
manganese sulphate:	
	: EC50 (Daphnia magna (Water flea)): 30 mg/l
disodium [[N.N'-ethvlenebis	[N-(carboxymethyl)glycinato]](4-)-N,N',O,O',ON,ON']cuprate(2-):
Toxicity to fish	: LC50 (Fish): 555 mg/l Exposure time: 96 h
12.2 Persistence and degradabili	ty
<u>Components:</u> potassium nitrate:	
Biodegradability	: Remarks: The methods for determining the biological degra- dability are not applicable to inorganic substances.

disodium [[N,N'-ethylenebis[N-(carboxymethyl)glycinato]](4-)-N,N',O,O',ON,ON']cuprate(2-):		
Biodegradability	: Remarks: Not readily biodegradable.	

: Remarks: Not applicable



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12.3 Bioaccumulative potentia	al
Components:	
potassium nitrate:	
Bioaccumulation	: Remarks: Does not bioaccumulate.
disodium [[N,N'-ethylenet Bioaccumulation	<pre>bis[N-(carboxymethyl)glycinato]](4-)-N,N',O,O',ON,ON']cuprate(2-):</pre>
12.4 Mobility in soil	
Product:	
Mobility	: Remarks: No data available
Components:	
potassium nitrate: Mobility	: Remarks: No data available
Boric acid:	
Mobility	: Remarks: No data available
12.5 Results of PBT and vPvB	assessment
Product:	
Assessment	: Remarks: No data available
Components:	
potassium nitrate:	
Assessment	: This substance is not considered to be persistent, bioaccumu- lating and toxic (PBT) This substance is not considered to be very persistent and very bioaccumulating (vPvB)
Boric acid:	
Assessment	: This substance is not considered to be persistent, bioaccumu- lating and toxic (PBT) Remarks: Not applicable
disodium [[N,N'-ethylenet	bis[N-(carboxymethyl)glycinato]](4-)-N,N',O,O',ON,ON']cuprate(2-):
Assessment	: This substance is not considered to be persistent, bioaccumu- lating and toxic (PBT) This substance is not considered to be very persistent and very bioaccumulating (vPvB)
12.6 Other adverse effects	
Product:	
Additional ecological infor- mation	: water endangering Do not flush into surface water or sanitary sewer system.



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SECTION 13: Disposal consi	iderations
13.1 Waste treatment methods	
Product	: Check if agriculture use is possible. Contact manufacturer.
Contaminated packaging	: Contaminated packaging should be emptied as far as possi- ble; then it can be passed on for recycling after being thor- oughly cleaned.
SECTION 14: Transport info	rmation
14.1 UN number	
Not regulated as a dangerou	us 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

Not applicable

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

Remarks : Not relevant

SECTION 15: Regulatory information

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

Water contaminating class : WGK 2 water endangering (Germany)

15.2 Chemical Safety Assessment

A Chemical Safety Assessment is not required for this product.

SECTION 16: Other information

Full text of H-Statements

H272	:	May intensify fire; oxidizer.
H302	:	Harmful if swallowed.
H318	:	Causes serious eye damage.
H319	:	Causes serious eye irritation.
H360FD	:	May damage fertility. May damage the unborn child.
H373	:	May cause damage to organs through prolonged or repeated



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H400 H410 H411	exposure. : Very toxic to aquatic life. : Very toxic to aquatic life with long lasting effects. : Toxic to aquatic life with long lasting effects.
Full text of other abbrev	viations
Acute Tox. Aquatic Acute	: Acute toxicity Acute aquatic toxicity

/ 10/10/1	. Note toxing
Aquatic Acute	: Acute aquatic toxicity
Aquatic Chronic	: Chronic aquatic toxicity
Eye Dam.	: Serious eye damage
Eye Irrit.	: Eye irritation
Ox. Sol.	: Oxidizing solids
Repr.	: Reproductive toxicity
STOT RE	: Specific target organ toxicity - repeated exposure

(Q)SAR - (Quantitative) Structure Activity Relationship; 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: ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; DIN - Standard of the German Institute for Standardisation; 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; ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; 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 concentra-tion; ICAO - International Civil Aviation Organization; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISO - International Organisation for Standardization; 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; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; 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: TRGS - Technical Rule for Hazardous Substances; UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative; DSL - Domestic Substances List (Canada); KECI - Korea Existing Chemicals Inventory; TSCA -Toxic Substances Control Act (United States); AICS - Australian Inventory of Chemical Substances; IECSC - Inventory of Existing Chemical Substances in China; ENCS - Existing and New Chemical Substances (Japan); ISHL - Industrial Safety and Health Law (Japan); PICCS - Philippines Inventory of Chemicals and Chemical Substances; NZIoC - New Zealand Inventory of Chemicals; TCSI - Taiwan Chemical Substance Inventory; CMR - Carcinogen, Mutagen or Reproductive Toxicant; GLP - Good Laboratory Practice

Further information

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



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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.

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