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SECTION 1: Identification of	of the substance/mixture and of the compan	y/undertaking
1.1 Product identifier		
Trade name	: Floranid Twin Permanent	
1.2 Relevant identified uses of	f the substance or mixture and uses advised aga	ainst
Use of the Sub- stance/Mixture	: Fertilizer	
1.3 Details of the supplier of th	he safety 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	: info@compo-expert.com	

1.4 Emergency telephone number

responsible for the SDS

Quality / Safety / Environment Telephone: +49 (0) 2151 - 579 - 0

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard statements	:	Not a hazardous substance or mixture ac- cording to Regulation (EC) No. 1272/2008.
Supplemental Hazard Statements	: EUH210	Safety data sheet available on request.
Further information		Hazardous Substances" legislation (Ge- erordnung) appendix I, No. 5 (Ammonium Nitrate I)

2.3 Other hazards

None known.

SECTION 3: Composition/information on ingredients



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Mixtures			
		: N,N''-(isobutylidene)diu n nitrate, potassium salt phates, magnesium salts	,
Hazardous components			
Chemical Name	CAS-No. EC-No. Registration number	Classification	Concentrati (% w/w)
ammonium nitrate	6484-52-2 229-347-8 01-2119490981-27- XXXX	Ox. Sol. 3; H272 Eye Irrit. 2; H319	>= 10 - < 4
iron sulphate	7720-78-7 231-753-5 01-2119513203-57- XXXX	Acute Tox. 4; H302 Eye Irrit. 2; H319 Skin Irrit. 2; H315	< 3
Borates, tetra sodium salts, pen- tahydrate	12179-04-3 215-540-4 01-2119490790-32- XXXX	Repr. 1B; H360FD Eye Irrit. 2; H319	< 0,2
zinc sulphate	7733-02-0 231-793-3 01-2119474684-27- XXXX	Acute Tox. 4; H302 Eye Dam. 1; H318 Aquatic Acute 1; H400	<= 0,05

 01-2119474684-27-XXXX
 Aquatic Acute 1; H400

 disodium [[N,N'-ethylenebis[N-(carboxymethyl)glycinato]](4-)-N,N',O,O',ON,ON']cuprate(2-)
 14025-15-1 237-864-5 05-2114842509-41-0000
 Acute Tox. 4; H302
 <= 0,5</td>

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice	: Wash hands with water as a precaution.
If inhaled	 Move to fresh air in case of accidental inhalation of fumes from overheating or combustion. Obtain medical attention. In case of lung irritation, first treatment with dexametason aerosol (spray).
In case of skin contact	: Wash off with plenty of water.



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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. Call a physician immediately.
4.2 Most important symptoms a	nd effects, both acute and delayed
Symptoms	 Ingestion may provoke the following symptoms: Methaemoglobinemia Inhalation of decomposition products in high concentration may cause shortness of breath (lung oedema).
4.3 Indication of any immediate Treatment	medical attention and special treatment needed : Treat symptomatically.
SECTION 5: Firefighting mea	sures
	sures
SECTION 5: Firefighting mea 5.1 Extinguishing media Suitable extinguishing media	
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 5.1 Extinguishing media Suitable extinguishing media Unsuitable extinguishing media 5.2 Special hazards arising from Specific hazards during fire-fighting 	 Water Foam Dry chemical Carbon dioxide (CO2) Sand the substance or mixture Can decompose at above 100 °C. Thermal decomposition products: Nitrogen monoxide, nitrogen dioxide, dinitrogenoxide, ammo- nia
 5.1 Extinguishing media Suitable extinguishing media Unsuitable extinguishing media 5.2 Special hazards arising from Specific hazards during fire- 	 Water Foam Dry chemical Carbon dioxide (CO2) Sand the substance or mixture Can decompose at above 100 °C. Thermal decomposition products: Nitrogen monoxide, nitrogen dioxide, dinitrogenoxide, ammo- nia Isobutyraldehyd

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Keep away from children.



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6.2 Environmental precautions	
Environmental precautions	: Do not flush into surface water or sanitary sewer system. Retain and dispose of contaminated wash water.
6.3 Methods and material for cont	ainment and cleaning up
Methods for cleaning up	: Use mechanical handling equipment.
6.4 Reference to other sections	
none	
SECTION 7: Handling and stor	age
7.1 Precautions for safe handling	
Advice on safe handling	 Protect from contamination. Keep away from direct sunlight. Protect against heat. Protect from moisture.
Advice on protection against fire and explosion	: The product is not flammable. Keep away from sources of ignition - No smoking. Keep away from combustible materials. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Risk of explosion if heated under confinement.
Hygiene measures	: Wash hands before breaks and at the end of workday.
7.2 Conditions for safe storage, ir	ncluding any incompatibilities
Requirements for storage areas and containers	: When stored loose do not mix with other fertilizers. Store well away from other substances. Keep away from direct sunlight. Protect against heat. Protect from contamination. Protect from moisture.
Storage class (TRGS 510)	: 5.1C, Ammonium nitrate and ammonium nitrate containing preparations

7.3 Specific end use(s)

Dampness

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Borates, tetra so- dium salts, pen- tahydrate	12179-04-3		3 mg/m3	DE TRGS 900

: Keep in a dry place.



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Peak-limit: excur- sion factor (catego- ry)	8;(II)			
Further information	element conte	ent of the correspond	inces, The threshold value is ling metal., When there is conv alues, there is no risk of harm	mpliance with
		AGW	0,5 mg/m3 (Borate)	DE TRGS 900
Peak-limit: excur- sion factor (catego- ry)	2;(l)			
Further information	Commission for dangerous substances, The threshold value is based on the element 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			
			1 mg/m3	ACGIHTLV

Contains no substances with occupational exposure limit values.

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

			. ,		
Substance name	End Use	Exposure routes	Potential health ef- fects	Value	
ammonium nitrate	Workers	Inhalation	Long-term systemic effects	36 mg/m3	
	Workers	Skin contact	Long-term systemic effects	5,12 mg/kg bw/day	
	Consumers	Ingestion	Long-term systemic effects	2,56 mg/kg bw/day	
	Consumers	Inhalation	Long-term systemic effects	8,9 mg/m3	
	Consumers	Skin contact, Ingestion	Long-term systemic effects	2,56 mg/kg bw/day	
iron sulphate	Workers	Skin contact	Acute effects, system- ic effects	2,8 mg/kg	
Remarks:	Exposure time: 24 h				
	Workers	Inhalation	Acute effects, system- ic effects	9,9 mg/m3	
	Workers	Skin contact	Chronic effects, sys- temic effects	2,8 mg/kg	
Remarks:	Exposure time: 24 h				
	Workers	Inhalation	Chronic effects, sys- temic effects	9,9 mg/m3	
	Consumers	Ingestion	Acute effects, system- ic effects	1,4 mg/kg	



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Remarks:	Exposure time: 24 h				
	Consumers	Skin contact	Acute effects, system- ic effects	1,4 mg/kg	
Remarks:	Exposure time	: 24 h			
	Consumers	Inhalation	Acute effects, system- ic effects	2,5 mg/m3	
	Consumers	Ingestion	systemic effects, Chronic effects	1,4 mg/kg	
Remarks:	Exposure time	: 24 h			
	Consumers	Skin contact	Chronic effects, sys- temic effects	1,4 mg/kg	
Remarks:	Exposure time: 24 h				
	Consumers	Inhalation	Chronic effects, sys- temic effects	2,5 mg/m3	
Borates, tetra sodium salts, pentahydrate	Workers	Inhalation	Long-term exposure	6,7 mg/m3	
	Consumers	Inhalation	Long-term exposure	3,4 mg/m3	
	Workers	Skin contact	Long-term exposure	316,4 mg/kg bw/day	
	Consumers	Skin contact	Long-term exposure	159,5 mg/kg bw/day	
	Consumers	Ingestion	Long-term exposure, Short-term exposure	0,79 mg/kg bw/day	

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

Substance name		Environmental Compartment	Value
ammonium nitrate		Sewage treatment plant	18 mg/l
iron sulphate		Water	
Remarks:	This produ	ict has no known ecotoxicological effects.	
		Behaviour in waste water treatment plants	2483 mg/l
		Fresh water sediment	246000 mg/kg
		Marine sediment	246000 mg/kg
		Soil	276000 mg/kg
Borates, tetra sodium sa tahydrate	alts, pen-	Fresh water	2,9 mg/l
		Marine water	2,9 mg/l
		Soil	5,7 mg/kg

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Intermittent use/release	13,7 mg/l
Sewage treatment plant	10 mg/l

8.2 Exposure controls

Personal protective equipment			
Eye protection	: In case of dust formation: Tightly fitting safety goggles		
Hand protection Material	: Gloves		
Skin and body protection	: No special protective equipment required.		
Respiratory protection	: respiratory protection only if aerosol or dust is formed.		

Environmental exposure controls

General advice	: Do not flush into surface water or sanitary sewer system.
	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	: various
Odour	: odourless
Odour Threshold	: No data available
рН	: ca. 6,2, Concentration: 100 g/l (20 °C)
Melting point/range	: No data available
Boiling point/boiling range	: Not applicable
Flash point	: Not relevant
Evaporation rate	: Not applicable
Flammability (solid, gas)	: The product is not flammable.
Upper explosion limit	: Not applicable
Lower explosion limit	: Not applicable
Vapour pressure	: Not applicable
Relative vapour density	: Not applicable





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9.2 Other information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

Stable under recommended storage conditions.

10.2 Chemical stability

No decomposition if stored and applied as directed. Decomposes on heating.

10.3 Possibility of hazardous reactions

Hazardous reactions : Evolution of ammonia under influence of

10.4 Conditions to avoid

Conditions to avoid	: Keep away from heat and sources of igni	tion.
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10.5 Incompatible materials

Materials to avoid	: oxidizable substances
	Strong acids and strong bases

10.6 Hazardous decomposition products

Hazardous decomposition	:	Nitrogen monoxide, nitrogen dioxide, dinitrogenoxide, ammo-
products		nia
		Isobutyraldehyd

SECTION 11: Toxicological information

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11.1 Information on toxicological effects Acute toxicity Product: Acute oral toxicity : Remarks: No data available Health injuries are not known or expected under normal use.

Acute dermal toxicity : Remarks: No data available Health injuries are not known or expected under normal use.

ammonium nitrate: Acute oral toxicity	LD50 (Rat): > 2.950 Method: OECD Test	
Acute inhalation toxicity	> 88,8 mg/l Method: No informati	on available.
Acute dermal toxicity	LD50 (Rat): > 5.000 n Method: OECD Test	

iron sulphate:

zinc sulphate:

Components:

Acute oral toxicity	:	LD50 (Rat): > 2.000 mg/kg Method: OECD Test Guideline 401
		LD50 (Rat): 657 - 4.390 mg/kg Method: Calculation method
		Acute toxicity estimate: 500 mg/kg Method: Converted acute toxicity point estimate
Acute inhalation toxicity	:	Remarks: This information is not available.
Acute dermal toxicity	:	LD50 (Rat): > 1.992 mg/kg Method: Converted acute toxicity point estimate
Borates, tetra sodium salts, pentahydrate:		
Acute oral toxicity		LD50 (Rat): 3.200 - 3.400 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): > 2,0 mg/l Method: OECD Test Guideline 403
Acute dermal toxicity	:	LD50 (Rabbit): > 2.000 mg/kg



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disodium [[N,N'-ethylenebis[N-(carboxymethyl)glycinato]](4-)-N,N',O,O',ON,ON']cuprate(2-): Acute oral toxicity : LD50 Oral (Rat): > 1.750 mg/kg

Skin corrosion/irritation

Product:

Result: non-irritant Remarks: The product has not been tested. The information is derived from the properties of the individual components.

Components:

ammonium nitrate: Species: Rabbit Method: OECD Test Guideline 404 Result: non-irritant

iron sulphate:

Method: OECD Test Guideline 404 Result: Skin irritation Remarks: Irritating to skin and mucous membranes

Borates, tetra sodium salts, pentahydrate:

Species: Rabbit Result: No skin irritation

zinc sulphate: Species: Rabbit Assessment: Irritating to skin.

Serious eye damage/eye irritation

Product:

Species: Rabbit Method: OECD Test Guideline 405 Result: non-irritant Remarks: The product was not tested. The statement was derived from products of similar structure and composition.

Components:

ammonium nitrate: Species: Rabbit Method: OECD Test Guideline 405 Result: Irritant

iron sulphate: Method: OECD Test Guideline 405 Result: Eye irritation



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Borates, tetra sodium salts, pentahydrate:

Species: Rabbit Assessment: Irritant Result: Moderate eye irritation

zinc sulphate:

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

Respiratory or skin sensitisation

Product:

Result: non-sensitizing Remarks: The product has not been tested. The information is derived from the properties of the individual components.

Components:

ammonium nitrate: Result: Does not cause skin sensitisation.

iron sulphate: Method: OECD TG 429 Result: Did not cause sensitisation on laboratory animals.

Borates, tetra sodium salts, pentahydrate:

Test Type: Buehler Test Species: Guinea pig Method: OECD Test Guideline 406 Result: Does not cause skin sensitisation.

Germ cell mutagenicity

Product:

Genotoxicity in vitro : R	Remarks: No data available
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Components:

ammonium nitrate:		
Genotoxicity in vitro	:	Method: OECD Test Guideline 471
		Result: negative

Borates, tetra sodium salts, pentahydrate:

Germ cell mutagenicity- As-	:	In vitro tests showed mutagenic effects
sessment		

Carcinogenicity

Product:



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Remarks: Contains no ingree	dient listed as a carcinogen	
Components:		
ammonium nitrate: Species: Rat Remarks: Animal testing did	not show any carcinogenic effects.	
iron sulphate: Carcinogenicity - Assess- ment	: Did not show carcinogenic, teratogenic or mutagenic or animal experiments.	effects in
Borates, tetra sodium salts Carcinogenicity - Assess- ment	 s, pentahydrate: Carcinogenicity classification not possible from curren 	t data.
Reproductive toxicity		
Product:		
Effects on fertility	: Remarks: No toxicity to reproduction The product has not been tested. The information is d from the properties of the individual components.	erived
Components:		
ammonium nitrate: Effects on fertility	: Species: Rat	
	Remarks: Animal testing did not show any effects on t	ertility.
Effects on foetal develop- ment	: Species: Rat Remarks: Did not show teratogenic effects in animal e ments.	experi-
Borates, tetra sodium salts Reproductive toxicity - As- sessment	 s, pentahydrate: In animal testing, risk of impaired fertility was shown of administration of very high doses of this substance. May damage fertility. May damage the unborn child. 	nly after

STOT - single exposure

Product:

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

Remarks: The product has not been tested. The information is derived from the properties of the individual components.

STOT - repeated exposure

Product:



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

Remarks: The product has not been tested. The information is derived from the properties of the individual components.

Components:

iron sulphate: Remarks: No known effect.

Repeated dose toxicity

Components:

ammonium nitrate: Species: Rat NOAEL: > 1.500 mg/kg Application Route: Oral Exposure time: 28 d

Species: Rat NOAEL: = 256 mg/kg Application Route: Oral Exposure time: 52 w Method: OECD Test Guideline 453

Species: Rat NOAEL: >= 185 mg/kg Application Route: by inhalation Exposure time: 2 w Method: Repeated Dose Inhalation Toxicity: 28-day or 14-day Study.

iron sulphate:

Species: Rat NOAEL: 284 - 324 mg/kg Application Route: Oral Exposure time: 90 d Remarks: Information given is based on data obtained from similar substances.

Species: Rat NOAEL: 100 mg/kg Application Route: Oral Exposure time: 49 d

Application Route: by inhalation Remarks: This information is not available.

Application Route: Dermal Remarks: This information is not available.



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Further information

Product:

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

SECTION 12: Ecological information

12.1 Toxicity

<u>Product:</u> Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Method: Directive 84/449/EEC, C.2
Toxicity to algae	:	EC50 (Scenedesmus subspicatus): > 100 mg/l Exposure time: 72 h Method: DIN 38412
Components:		
ammonium nitrate:		
Toxicity to fish	:	LC50 (Fish): > 100 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia (water flea)): 490 mg/l Exposure time: 48 h
		LC50 : 490 mg/l
Toxicity to algae	:	EC50 (Selenastrum capricornutum (green algae)): 1.700 mg/l Exposure time: 10 d
iron sulphate:		
Ecotoxicology Assessment Acute aquatic toxicity	:	This product has no known ecotoxicological effects.
Borates, tetra sodium salts, pentahydrate:		
Toxicity to fish	:	LC50 (dab): 74 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 242 mg/l Exposure time: 24 h
Toxicity to algae	:	EC10 (Scenedesmus subspicatus): 24 mg/l Exposure time: 96 h



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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
disodium [[N,N'-ethylenebis	[N-(carboxymethyl)glycinato]](4-)-N,N',O,O',ON,ON']cuprate(2-):
Toxicity to fish	: LC50 (Fish): > 100 mg/l
Toxicity to algae	: EC50 : 30 mg/l Exposure time: 96 h
12.2 Persistence and degradabili	ty
Product:	
Biodegradability	: Remarks: No data available
Physico-chemical removabil- ity	: DOC reduction ca. 85 %
''y	Method: OECD 301E/92/69/EWG, C.4-B Remarks: Readily eliminated from water
<u>Components:</u> ammonium nitrate:	
Biodegradability	: Remarks: The methods for determining the biological degra- dability are not applicable to inorganic substances.
iron sulphate:	
Biodegradability	: Remarks: The methods for determining the biological degra- dability are not applicable to inorganic substances.
12.3 Bioaccumulative potential	
Product:	
Bioaccumulation	: Remarks: Bioaccumulation is unlikely.
Components:	
ammonium nitrate: Bioaccumulation	: Remarks: Bioaccumulation is unlikely.



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Partition coefficient: n- octanol/water	: log Pow: -3,1
iron sulphate: Bioaccumulation	: Remarks: Accumulation in aquatic organisms is unlikely.
12.4 Mobility in soil	
<u>Product:</u> Mobility	: Remarks: No data available
Distribution among environ- mental compartments	: Remarks: Moderately mobile in soils
Components: iron sulphate: Distribution among environ- mental compartments	: Medium:Soil Remarks: immobile
12.5 Results of PBT and vPvB as	sessment
Product: Assessment	: Remarks: Not applicable
Components: iron sulphate: Assessment	: This substance is not considered to be very persistent and very bioaccumulating (vPvB) This substance is not considered to be persistent, bioaccumulating and toxic (PBT)
12.6 Other adverse effects	
Product: Additional ecological infor- mation	 Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentra- tions. There is a high probability that the product is acute not harm- ful to aquatic organisms.
SECTION 13: Disposal conside	erations
13.1 Waste treatment methods	
Product	: Check if agriculture use is possible.

Product	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.



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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

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 (Germany)	: WGK 1 slightly water endangering
Other regulations	: TRGS 511 'Ammonium nitrate'

This product is subject to Regulation (EU) 2019/1148; suspicious transactions, disappearance or theft of the product must be reported to the relevant authority.

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.
H315	: Causes skin irritation.
H318	: Causes serious eye damage.
H319	: Causes serious eye irritation.
H360FD	: May damage fertility. May damage the unborn child.
H400	: Very toxic to aquatic life.



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H410

: Very toxic to aquatic life with long lasting effects.

Full text of other abbreviations

Acute Tox.	: Acute toxicity
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
Skin Irrit.	: Skin irritation

(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 concentration; 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 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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