

Cover Sheet

For Safety Data Sheets "NPK-Liquid Fertilizer"

Product
PARK DRIVHUSGØDNING Liquid Fertilizer

NPK-Value 3-1-4

> Color Green

Density 1,15

Contact:

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Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 22.05.2019 / 0002

Replacing version dated / version: 31.08.2018 / 0001

Valid from: 22.05.2019 PDF print date: 19.07.2019 NPK-Flüssig-Blumendünger

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

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

1.1 Product identifier

NPK-Flüssig-Blumendünger

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

fertilizer

Uses advised against:

No information available at present.

1.3 Details of the supplier of the safety data sheet

(GB)

Schmees GmbH Am Bahnhof 74 27239 Twistringen Deutschland

Tel.: +49 (0) 42 43 / 4 11-0 Fax: +49 (0) 42 43 / 4 11-888

info@schmees.de

Qualified person's e-mail address: info@chemical-check.de, k.schnurbusch@chemical-check.de Please DO NOT use for requesting Safety Data Sheets.

1.4 Emergency telephone number

Emergency information services / official advisory body:

Telephone number of the company in case of emergencies:

+49 (0) 42 43 / 4 11-0 (8:00 - 16:30)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) 1272/2008 (CLP)

The mixture is not classified as dangerous in the terms of the Regulation (EC) 1272/2008 (CLP).

2.2 Label elements

Labeling according to Regulation (EC) 1272/2008 (CLP)

Not applicable

2.3 Other hazards

The mixture does not contain any vPvB substance (vPvB = very persistent, very bioaccumulative) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

SECTION 3: Composition/information on ingredients

3.1 Substance

n.a.

3.2 Mixture

Ammonium nitrate Substance with specific conc. limit(s) acc. to REAChregistration

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Registration number (REACH)	01-2119490981-27-XXXX	
Index		
EINECS, ELINCS, NLP	229-347-8	
CAS	6484-52-2	
content %	1-<25	
Classification according to Regulation (EC) 1272/2008 (CLP)	Ox. Sol. 3, H272 Eve Irrit. 2, H319	

Boric acid	SVHC-substance	
Registration number (REACH)	01-2119486683-25-XXXX	
Index	005-007-00-2	
EINECS, ELINCS, NLP	233-139-2	
CAS	10043-35-3	
content %	0,01-<2,5	
Classification according to Regulation (EC) 1272/2008 (CLP)	Repr. 1B, H360FD	

For the text of the H-phrases and classification codes (GHS/CLP), see Section 16.

The substances named in this section are given with their actual, appropriate classification!

For substances that are listed in appendix VI, table 3.1 of the regulation (EC) no. 1272/2008 (CLP regulation) this means that all notes that may be given here for the named classification have been taken into account.

SECTION 4: First aid measures

4.1 Description of first aid measures

First-aiders should ensure they are protected!

Never pour anything into the mouth of an unconscious person!

Inhalation

Not required.

Skin contact

Wash in water.

Eye contact

Remove contact lenses.

Wash thoroughly for several minutes using copious water. Seek medical help if necessary.

Ingestion

Rinse the mouth thoroughly with water.

Give copious water to drink. Consult doctor if necessary.

4.2 Most important symptoms and effects, both acute and delayed

If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1. In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours.

4.3 Indication of any immediate medical attention and special treatment needed

Symptomatic treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media Suitable extinguishing media

The product does not burn.

Adapt to the nature and extent of fire.

Water jet spray/foam/CO2/dry extinguisher

Unsuitable extinguishing media

None known

5.2 Special hazards arising from the substance or mixture

In case of fire the following can develop:

Oxides of carbon

Oxides of nitrogen

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes.

Protective respirator with independent air supply.

According to size of fire

Full protection, if necessary.

Dispose of contaminated extinction water according to official regulations.

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

No special measures required.

6.2 Environmental precautions

Prevent from entering drainage system.

Prevent surface and ground-water infiltration, as well as ground penetration.

6.3 Methods and material for containment and cleaning up

Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth, sawdust) and dispose of according to Section 13.

6.4 Reference to other sections

For personal protective equipment see Section 8 and for disposal instructions see Section 13.

SECTION 7: Handling and storage

In addition to information given in this section, relevant information can also be found in section 8 and 6.1,

7.1 Precautions for safe handling

7.1.1 General recommendations

Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.

Observe directions on label and instructions for use.

7.1.2 Notes on general hygiene measures at the workplace

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

7.2 Conditions for safe storage, including any incompatibilities

Store product closed and only in original packing.

Not to be stored in gangways or stair wells.

7.3 Specific end use(s)

No information available at present.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ammonium nitrate			1			
Area of application	Exposure route / Environmental compartment	Effect on health	Descripto r	Value	Unit	Note
	Environment - sewage treatment plant		PNEC	18	mg/l	
Consumer	umer Human - oral		DNEL	2,56	mg/kg bw/d	
Consumer	Human - dermal	Long term, systemic effects	DNEL	2,56	mg/kg bw/d	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	8,9	mg/m3	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	5,12	mg/kg bw/d	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	36	mg/m3	

Boric acid						
Area of application	Exposure route / Environmental compartment	Effect on health	Descripto r	Value	Unit	Note
	Environment - freshwater		PNEC	1,35	mg/l	
	Environment - marine		PNEC	1,35	mg/l	-7

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	Environment - water, sporadic (intermittent) release		PNEC	9,1	mg/I
	Environment - sewage treatment plant		PNEC	1,75	mg/l
	Environment - sediment, freshwater		PNEC	1,8	mg/kg dw
	Environment - sediment, marine		PNEC	1,8	mg/kg dw
	Environment - soil		PNEC	5,4	mg/kg dw
Consumer	Human - inhalation	Long term, systemic effects	DNEL	4,15	mg/m3
Consumer	Human - dermal	Long term, systemic effects	DNEL	196	mg/kg bw/day
Consumer	Human - oral	Long term, systemic effects	DNEL	0,98	mg/kg bw/day
Consumer	Human - oral	Short term, systemic effects	DNEL	0,98	mg/kg bw/day
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	8,3	mg/m3
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	392	mg/kg bw/day

Urea						
Area of application	Exposure route / Environmental compartment	Effect on health	Descripto r	Value	Unit	Note
	Environment - freshwater		PNEC	0,047	mg/l	
Consumer	Human - dermal	Short term, systemic effects	DNEL	580	mg/kg	
Consumer	Human - dermal	Long term, systemic effects	DNEL	580	mg/kg	
Consumer	Human - inhalation	Short term, systemic effects	DNEL	125	mg/m3	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	125	mg/m3	
Consumer	Human - oral	Short term, systemic effects	DNEL	42	mg/kg	
Consumer	Human - oral	Long term, systemic effects	DNEL	42	mg/kg	
Workers / employees	Human - dermal	Short term, systemic effects	DNEL	580	mg/kg	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	580	mg/kg	
Workers / employees	Human - inhalation	Short term, systemic effects	DNEL	292	mg/m3	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	292	mg/m3	

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Ensure good ventilation. This can be achieved by local suction or general air extraction.

If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn. Applies only if maximum permissible exposure values are listed here.

8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

Eye/face protection:

Normally not necessary.

Skin protection - Hand protection:

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Normally not necessary.

Skin protection - Other: Normally not necessary.

Respiratory protection: Normally not necessary.

Thermal hazards: Not applicable

Additional information on hand protection - No tests have been performed.

In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents. Selection of materials derived from glove manufacturer's indications.

Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account. Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.

In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before use.

The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

8.2.3 Environmental exposure controls

No information available at present.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state: Liquid Colour: Green

Odour: Characteristic Odour threshold: Not determined

pH-value: >3-8

Melting point/freezing point: Not determined Initial boiling point and boiling range: ~105

Flash point: Not determined

Evaporation rate: Not determined Flammability (solid, gas): n.a.

Lower explosive limit: Not determined Upper explosive limit: Not determined Vapour pressure: Not determined Vapour density (air = 1): Not determined Density: 1-1,24 g/ml

Bulk density: n.a. Solubility(ies): Not determined Water solubility: Soluble

Partition coefficient (n-octanol/water): Not determined Auto-ignition temperature: Not determined Decomposition temperature: Not determined Viscosity: Not determined

Explosive properties: Product is not explosive.

Oxidising properties:

9.2 Other information

Miscibility: Not determined Fat solubility / solvent: Not determined Conductivity: Not determined Surface tension: Not determined Solvents content: Not determined

SECTION 10: Stability and reactivity

10.1 Reactivity

The product has not been tested.

10.2 Chemical stability

Stable with proper storage and handling.

10.3 Possibility of hazardous reactions

No dangerous reactions are known.

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10.4 Conditions to avoid

None known

10.5 Incompatible materials

None known

10.6 Hazardous decomposition products

No decomposition when used as directed.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Possibly more information on health effects, see Section 2.1 (classification).

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:			1			n.d.a.
Acute toxicity, by dermal route:						n.d.a.
Acute toxicity, by inhalation:						n.d.a.
Skin corrosion/irritation:						n.d.a.
Serious eye damage/irritation:						n.d.a.
Respiratory or skin sensitisation:						n.d.a.
Germ cell mutagenicity:						n.d.a.
Carcinogenicity:						n.d.a.
Reproductive toxicity:						n.d.a.
Specific target organ toxicity - single exposure (STOT-SE):						n.d.a.
Specific target organ toxicity - repeated exposure (STOT- RE):						n.d.a.
Aspiration hazard:						n.d.a.
Symptoms:						n.d.a.

Ammonium nitrate	For the stock	Materia	Litera	1	I	
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	2950	mg/kg	Rat	OECD 401 (Acute Oral Toxicity)	
Acute toxicity, by dermal route:	LD50	>5000	mg/kg	Rat	OECD 402 (Acute Dermal Toxicity)	197.26
Acute toxicity, by inhalation:	LC50	> 88,8	mg/l/4h	Rat		Dust
Skin corrosion/irritation:		= -		Rabbit	OECD 404 (Acute Dermal Irritation/Corrosion)	Not irritant
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosion)	Eye Irrit. 2
Serious eye damage/irritation:		>=80	%		7-1-17-00-17-57-00-18-00-18-00-18-18-18-18-18-18-18-18-18-18-18-18-18-	Eye Irrit. 2
Respiratory or skin sensitisation:				Mouse	OECD 429 (Skin Sensitisation - Local Lymph Node Assay)	No (skin contact)
Germ cell mutagenicity:			100	Salmonella typhimurium	OECD 471 (Bacterial Reverse Mutation Test)	Negative
Reproductive toxicity:	NOAEL	>=1500	mg/kg bw/d	Rat	OECD 422 (Combined Repeated Dose Tox. Study with the Reproduction/Develop m. Tox. Screening Test)	Analogous conclusion

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Specific target organ toxicity - repeated exposure (STOT- RE):	NOAEL	>=1500	mg/kg bw/d	Rat	OECD 422 (Combined Repeated Dose Tox. Study with the Reproduction/Develop m. Tox. Screening Test)	Analogous conclusion
Aspiration hazard:						No
Symptoms:						respiratory distress, drop in blood pressure, diarrhoea, disturbed heart rhythm, headaches, cramps, circulatory collapse, stomach pain, nausea and vomiting.
Specific target organ toxicity - repeated exposure (STOT- RE), inhalat.:	NOAEC	>=1	mg/m3	Rat	OECD 412 (Subacute Inhalation Toxicity - 28-Day Study)	

Boric acid Toxicity / effect	Endpoint	Value	Unit	Ormaniam	T	
Acute toxicity, by oral route:	LD50	>2600	mg/kg	Organism Rat	Test method OECD 401 (Acute	Notes
	500,000,000	CTIONS OCC.	379.5789.3455	1000000	Oral Toxicity)	
Acute toxicity, by dermal route:	LD50	>2000	mg/kg	Rabbit	***	
Acute toxicity, by inhalation:	LC50	>2	g/m3	Rat		
Skin corrosion/irritation:				0.0393		Not irritant
Serious eye damage/irritation:						Not irritant
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	Not sensitizising
Germ cell mutagenicity:					OECD 471 (Bacterial Reverse Mutation Test)	Negative
Reproductive toxicity:					*	Positive
Aspiration hazard:						Negative
Symptoms:						ataxia, breathing difficulties, diarrhoea, headaches, cramps, gastrointestinal disturbances, fatigue, dizziness, nausea

SECTION 12: Ecological information

Possibly more information on environmental effects, see Section 2.1 (classification).

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	W-1111/000000000000000000000000000000000						n.d.a.
12.1. Toxicity to daphnia:							n.d.a.
12.1. Toxicity to algae:							n.d.a.
12.2. Persistence and degradability:							n.d.a.

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12.3. Bioaccumulative potential:	n.d.a.
12.4. Mobility in soil:	n.d.a.
12.5. Results of PBT and vPvB assessment	n.d.a.
12.6. Other adverse effects:	n.d.a.

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	48h	447	mg/l	Cyprinus caprio		
12.1. Toxicity to daphnia:	EC50	48h	490	mg/l	Daphnia magna		
12.1. Toxicity to algae:	EC50	10d	>1700	mg/l			

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	>800	mg/l	Oncorhynchus mykiss		100000000000000000000000000000000000000
12.1. Toxicity to fish:	NOEC/NOEL	34d	1,8	mg/l	Brachydanio rerio		
12.1, Toxicity to fish:	LC50	96h	5600	mg/l	Gambusia affinis		
12.1. Toxicity to fish:	LC50	96h	456	mg/l	Pimephales promelas		
12.1. Toxicity to daphnia:	EC50	48h	133-875	mg/l	Daphnia magna		
12.1. Toxicity to algae:	IC50	72h	192	mg/l	Scenedesmus subspicatus		
12.1. Toxicity to algae:	EC50	72h	229	mg/l	Pseudokirchnerie Ila subcapitata		
12.2. Persistence and degradability:							Inorganic products cannot be eliminated from water through biological purification methods.
12.3. Bioaccumulative potential:	Log Pow		-1,25 0,757	-000			Bioaccumulation is unlikely (LogPow < 1). Not relevant for inorganic substances.
Water solubility:			47	g/l			Soluble20°C
Water solubility:			379,9	g/l			Soluble100°C

SECTION 13: Disposal considerations

13.1 Waste treatment methods

For the substance / mixture / residual amounts

EC disposal code no.:

The waste codes are recommendations based on the scheduled use of this product. Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances. (2014/955/EU)

02 01 99 wastes not otherwise specified

Recommendation:

Sewage disposal shall be discouraged.

Pay attention to local and national official regulations.

E.g. suitable incineration plant.

E.g. dispose at suitable refuse site.

For contaminated packing material

Pay attention to local and national official regulations.

Empty container completely.

Uncontaminated packaging can be recycled.

Dispose of packaging that cannot be cleaned in the same manner as the substance.

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SECTION 14: Transport information

General statements

14.1. UN number: n.a.

Transport by road/by rail (ADR/RID)

14.2. UN proper shipping name:
14.3. Transport hazard class(es):
14.4. Packing group:
14.5. Classification code:
15. Classification code:
16. Classification code:
17. Classification code:
18. Classification code:
19. Clas

14.5. Environmental hazards: Not applicable

Tunnel restriction code:

Transport by sea (IMDG-code)

14.2. UN proper shipping name:
14.3. Transport hazard class(es):
14.4. Packing group:
14.5. Marine Pollutant:
14.7. Name Pollutant:
15. Name Pollutant:
16. Name Pollutant:
17. Name Pollutant:
18. Name Pollu

14.5. Environmental hazards: Not applicable

Transport by air (IATA)

14.2. UN proper shipping name:

14.3. Transport hazard class(es): n.a. 14.4. Packing group: n.a.

14.5. Environmental hazards: Not applicable

14.6. Special precautions for user

Unless specified otherwise, general measures for safe transport must be followed.

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

Non-dangerous material according to Transport Regulations.

SECTION 15: Regulatory information

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

Observe restrictions:

Regulation (EC) No 1907/2006, Annex XVII

Ammonium nitrate

Boric acid

General hygiene measures for the handling of chemicals are applicable.

Directive 2012/18/EU ("Seveso III"), Annex I, Part 2 - This product contains the substances listed below:

Entry Nr	Dangerous substances	Notes to Annex I	Qualifying quantity (tonnes) for the application of - Lower- tier requirements	Qualifying quantity (tonnes) for the application of - Upper- tier requirements
1	Ammonium nitrate	13	5000	10000
2	Ammonium nitrate	14	1250	5000
3	Ammonium nitrate	15	350	2500
4	Ammonium nitrate	16	10	50

The Notes to Annex 1 of Directive 2012/18/EU, in particular those named in the tables here and notes 1-6, must be taken into account when assigning categories and qualifying quantities.

Directive 2010/75/EU (VOC):

0%

Gefahrstoffverordnung "Ammoniumnitrathaltige Zubereitung Gruppe D2" beachten.

15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information

Revised sections:

1, 3, 8, 9, 11, 12, 15

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Classification and processes used to derive the classification of the mixture in accordance with the ordinance (EG) 1272/2008 (CLP):

Not applicable

The following phrases represent the posted Hazard Class and Risk Category Code (GHS/CLP) of the product and the constituents (specified in Section 2 and 3)

H272 May intensify fire, oxidiser.

H360FD May damage fertility. May damage the unborn child.

H319 Causes serious eye irritation.

Ox. Sol. - Oxidising solid Eye Irrit. — Eye irritation Repr. — Reproductive toxicity

Any abbreviations and acronyms used in this document:

according, according to acc., acc. to

ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement

concerning the International Carriage of Dangerous Goods by Road) AOX Adsorbable organic halogen compounds

approx. approximately Art., Art. no. Article number

ASTM ASTM International (American Society for Testing and Materials)

BAM Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany)

BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany)

BSEF The International Bromine Council

body weight

CAS Chemical Abstracts Service

CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures)

CMR carcinogenic, mutagenic, reproductive toxic

DMEL Derived Minimum Effect Level

DNEL Derived No Effect Level

dw dry weight

for example (abbreviation of Latin 'exempli gratia'), for instance e.g.

EC European Community ECHA European Chemicals Agency European Economic Community EEC

EINECS

European Inventory of Existing Commercial Chemical Substances **ELINCS** European List of Notified Chemical Substances

EN European Norms

EPA United States Environmental Protection Agency (United States of America)

et cetera

EU European Union

EVAL Ethylene-vinyl alcohol copolymer

Fax. Fax number gen. general

Globally Harmonized System of Classification and Labelling of Chemicals GHS

Global warming potential **GWP**

IARC International Agency for Research on Cancer International Air Transport Association IATA IBC (Code) International Bulk Chemical (Code)

IMDG-code International Maritime Code for Dangerous Goods

incl. including, inclusive

IUCLIDInternational Uniform Chemical Information Database

LQ Limited Quantities

MARPOL International Convention for the Prevention of Marine Pollution from Ships

not applicable n.a. not available n.av. not checked n.c.

n.d.a. no data available

OECD Organisation for Economic Co-operation and Development

org.

PBT persistent, bioaccumulative and toxic (GB) Page 11 of 11

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Polyethylene

PNEC Predicted No Effect Concentration

parts per million PVC. Polyvinylchloride

REACH Registration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning

the Registration, Evaluation, Authorisation and Restriction of Chemicals)

REACH-IT List-No. 9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical identifier. List Numbers do not have any legal significance, rather they are purely technical identifiers for processing a submission via

RID Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International Carriage of Dangerous Goods by Rail)

SVHC Substances of Very High Concern

Tel. Telephone

UN RTDG United Nations Recommendations on the Transport of Dangerous Goods

VOC Volatile organic compounds

vPvB very persistent and very bioaccumulative

wet weight wwt

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge. No responsibility.

These statements were made by: Chemical Check Platz 1-7, D-32839 Steinheim, Tel.: +49 5233 94 17 0, Fax: +49 5233 94 17 90

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