According to Regulation EC No. 1907/2006

Beschleunigerspray GP

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1. Identification of the substance/preparation and of the company/undertaking

1.1 Identification of the substance

or preparation: Beschleunigerspray GP

1.2 Use of the substance/preparation: Aerosol -Activator

1.3 Company/undertaking identification

Company name: Gößl + Pfaff GmbH Street: Münchener Str. 13

 Place:
 85123 Karlskron/Brautlach

 Telephone:
 +49 (0) 8450 / 932-0

 Fax.:
 +49 (0) 8450 / 932-13

Contact person: Management: Mr. Gößl, Mr. Pfaff

E-Mail: info@goessl-pfaff.de
Internet: www.goessl-pfaff.de
Responsible Department: Management

1.4 Emergency telephone

Emergency CONTACT (24-Hour-Number): GBK GmbH +49 (0) 6132-84463

2. Hazards identification

2.1 Classification of the substance or mixture

Regulation (EC) No. 1272/2008

Aerosol 1; H222-H229 Asp. Tox. 1; H304 Skin Irrit. 2; H315 STOT SE 3; H336 Aquatic Chronic 2; H411

Full text of hazard statements: see SECTION 16.

2.2 Label elements

Regulation (EC) No. 1272/2008 Hazard components for labelling

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane

Signal word: Danger

Pictograms:







Hazard statements

H222 Extremely flammable aerosol.

H229 Pressurised container: May burst if heated.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P211 Do not spray on an open flame or other ignition source.



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P251 Do not pierce or burn, even after use.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

2.3. Other hazards

In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.

3. Composition/information on ingredients

3.2 Mixtures

Hazardous components

CAS No	Chemical	name		Quantity	
	EC No	Index No	REACH No	_	
	GHS Clas	sification			
106-97-8	Butane			40 – < 45 %	
	203-448-7	601-004-00-	0 01-2119474691-32		
	Flam. Gas	1; H220			
92128-66-6	0 Hydrocar	bons, C6-C7,	n-alkanes, isoalkanes, cyclics, <5% n-hexane	30 – < 35 %	
	921-024-6	6	01-2119475514-35		
	Flam. Liq. 2, Skin Irrit. 2, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H225 H315 H336 H304 H411				
74-98-6	Propane			20 – < 25 %	
	200-827-9				
	Flam. Gas	1, Liquefied	gas; H220 H280		
99-97-8	N,N-dime	0.5 – < 1 %			
	202-805-4	l.	01-2119937766-23		
	Acute Tox. 3, Acute Tox. 3, Acute Tox. 3, STOT RE 2, Aquatic Chronic 3; H331 H311 H301 H373 H412				

Full text of H and EUH statements: see section 16.

CAS No	EC No Chemical name					
	Specific Co	nc. Limits, M-factors and ATE				
	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	30 - < 35 %				
	inhalation: LC50 = (> 25,2) mg/l (vapours); dermal: LD50 = (> 2800 - 3100) mg/kg; oral: LD50 = > 5000 mg/kg					
99-97-8	202-805-4	N,N-dimethyl-p-toluidine	0.5 - < 1 %			
	inhalation: ATE = 3 mg/l (vapours); inhalation: ATE = 0,5 mg/l (dusts or mists); dermal: ATE = 300 mg/kg; oral: LD50 = 139 mg/kg					

4. First aid measures

4.1 Description of first aid measures

General information

When in doubt or if symptoms are observed, get medical advice.

After inhalation

Provide fresh air. In case of allergic symptoms, especially in the breathing area, seek medical advice immediately.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention.



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After contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

After ingestion

Observe risk of aspiration if vomiting occurs. If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention.

4.2 Most important symptoms and effects, both acute and delayed

No information available

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5. Fire-fighting measures

5.1 Extinguishing media Suitable extinguishing media

Carbon dioxide (CO2), Foam, Extinguishing powder.

Unsuitable extinguishing media

Water.

5.2 Special hazards arising from the substance or mixture

Extremely flammable aerosol. Pressurized container: May burst if heated. Vapours can form explosive mixtures with air.

5.3 Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

Additional information

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Remove all sources of ignition. Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment

6.2 Environmental precautions

Do not allow uncontrolled discharge of product into the environment. Explosion risk.

6.3 Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

6.4 Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

7. Handling and storage

7.1 Advice on safe handling

Do not pierce or burn, even after use. Do not breathe gas/fumes/vapour/spray. Use only outdoors or in a well-ventilated area.



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Advice on protection against fire and explosion

Do not spray on naked flames or any incandescent material. Protect from sunlight.

Do not expose to temperatures exceeding 50 °C/122 °F. Keep away from sources of ignition - No smoking.

Take precautionary measures against static discharges. Vapours can form explosive mixtures with air.

Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat, drink, smoke, sniff.

Further information on handling

Heating causes rise in pressure with risk of bursting.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed. Provide adequate ventilation as well as local exhaustion at critical locations.

Keep in a cool, well-ventilated place.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Hints on joint storage

Do not store together with: Oxidising agent. Pyrophoric or self-heating substances.

Further information on storage conditions

Keep away from food, drink and animal feedingstuffs.

7.3 Specific end use(s)

Aerosol - Activator

8. Exposure controls/personal protection

8.1 Control parameters

DNEL/DMEL values

CAS No	Substance						
DNEL type		Exposure route	Effect	Value			
92128-66-00	Hydrocarbons, C6-C7, n-alkan	es, isoalkanes, cyclics, <5 %	6 n-hexane				
Worker DNEL, lor	ng-term	dermal	systemic	773 mg/kg bw/day			
Worker DNEL, lor	ng-term	inhalation	systemic	2035 mg/m ³			
Consumer DNEL,	long-term	dermal	systemic	699 mg/kg bw/day			
Consumer DNEL, long-term		inhalation	systemic	608 mg/m³			
Consumer DNEL, long-term		oral	systemic	699 mg/kg bw/day			
99-97-8	N,N-dimethyl-p-toluidine	<u>.</u>					
Worker DNEL, lo	ng-term	inhalation	systemic	1,224 mg/m³			
Worker DNEL, long-term		dermal	systemic	0,694 mg/kg			
Consumer DNEL, long-term		inhalation	systemic	0,302 mg/m³			
Consumer DNEL, long-term		dermal	systemic	0,347 mg/kg bw/day			
Consumer DNEL	, long-term	oral	systemic	0,174 mg/kg bw/day			

PNEC values

CAS No	Substance		
Environmenta	al compartment	Value	
99-97-8 N,N-dimethyl-p-toluidine			
Freshwater		0,014 mg/l	
Freshwater (in	termittent releases)	0,137 mg/l	
Marine water		0,001 mg/l	
Freshwater se	diment	48,245 mg/kg	

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Marine sediment	48,245 mg/kg
Micro-organisms in sewage treatment plants (STP)	1,36 mg/l
Soil	20,365 mg/kg

Additional advice on limit values

To date, no national critical limit values exist.

8.2 Exposure controls

Appropriate engineering controls

Do not breathe gas/fumes/vapour/spray. If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.

Protective and hygiene measures

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection program.

Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear eye protection/face protection. Suitable eye protection: Eye glasses with side protection DIN EN 166

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. EN ISO 374

Suitable material:

FKM (fluoro rubber) (0,7 mm), Breakthrough time (maximum wearing time): 480 min

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Skin protection

Wear anti-static footwear and clothing

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Suitable respiratory protection apparatus: Combination filtering device: A-P2

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state: Liquid
Colour: colourless
Odour: like: Solvent

Melting point/freezing point: not applicable Boiling point or initial boiling point

and boiling range: <-20 °C

Flammability

Solid: not applicable

Gas:not applicableLower explosion limits:0,6 vol. %Upper explosion limits:15 vol. %Flash point:< -20 °C</td>Ignition temperature:> 200 °CAuto-ignition temperature:> 200 °CDecomposition temperature:not determined

pH-Value:

Water solubility (at 20 °C):

Solubility in other solvents:

Partition coefficient n-octanol/water:

not relevant
practically insoluble
not determined
not determined

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Vapour pressure:not determinedDensity (at 20 °C):0,605 g/cm³Relative vapour density:not determined

9.2 Other information

Information with regard to physical hazard classes

Explosive properties

Heating may cause an explosion.

Self-ignition temperature

Solid: not determined Gas: not determined

Oxidizing properties

Not oxidising.

Other safety characteristics

Evaporation rate: not determined Solid content: not determined Viscosity / dynamic: not applicable

10. Stability and reactivity

10.1 Reactivity

Extremely flammable aerosol. Pressurized container: May burst if heated.

10.2 Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.

Vapours can form explosive mixtures with air.

10.5 Incompatible materials

No information available.

10.6 Hazardous decomposition products

No known hazardous decomposition products.

11. Toxicological information

11.1. Information on toxicological effects

Acute toxicity

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

CAS No	Chemical name							
	Exposure route	Dose	Species	Source	Method			
92128-66-0	Hydrocarbons, C	6-C7, n-alkanes, isoalk	anes, cyclics	, < 5% n-hexane				
	oral	LD50 > 5.000 mg/kg	Rat					
	dermal	LD50 > 2.800–3.100 mg/kg	Rat	Study report (1977)				
	inhalation (4 h) vapour	LC50 > 25,2 mg/l	Rat	Study report (1988)				
99-97-8	N,N-dimethyl-p-toluidine							
	oral	LD50 139 mg/kg	Mouse	RTECS (Registry of Toxic Effects of Chem	other:			

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	dermal	ATE 300 mg/kg		
	inhalation vapour	ATE 3 mg/l		
	inhalation aerosol	ATE 0,5 mg/l		

Irritation and corrosivity

Causes skin irritation.

Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.

Sensitising effects

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

Carcinogenic/mutagenic/toxic effects for reproduction

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

STOT-single exposure

May cause drowsiness or dizziness. (Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane)

STOT-repeated exposure

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

Aspiration hazard

May be fatal if swallowed and enters airways.

Additional information on tests

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

12. Ecological information

12.1 Toxicity

Toxic to aquatic life with long lasting effects.

CAS No	Chemical name								
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method		
106-97-8	Butane								
	Acute fish toxicity	LC50 mg/l	49,9	96 h	Fish, no other information	United States Environmental Protection A			
	Acute algae toxicity	ErC50 mg/l	19,37	96 h	Algae	USEPA OPPT Risk Assessment Division (200	Calculation using ECOSAR Program v1.00.		
	Acute crustacea toxicity	EC50 mg/l	69,43	48 h	Daphnia sp.	USEPA OPPT Risk Assessment Division (200	Calculation using ECOSAR Program v1.00.		
92128-66-0	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5 % n-hexane								
	Acute fish toxicity	LC50	11,4 mg/l	96 h	Oncorhynchus mykiss	ECHA	OECD 203		
	Acute algae toxicity	ErC50	10 – 30 mg	72 h	Pseudokirchneriella subcapitata	Study report (1995)	OECD Guideline 201		
	Acute crustacea toxicity	EL50	3 mg/l	48 h		ECHA	OECD 202		
74-98-6	Propane								
	Acute fish toxicity	LC50	49,9 mg/l	96 h	Fish, no other information	United States Environmental Protection A			
	Acute algae toxicity	ErC50	19,37 mg/l	96 h	Algae	USEPA OPPT Risk Assessment Division (200	Calculation using ECOSAR Program v1.00.		

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	Acute crustacea toxicity	EC50	69,43 mg/l	48 h	Daphnia sp.	USEPA OPPT Risk Assessment Division (200	Calculation using ECOSAR Program v1.00.
99-97-8	N,N-dimethyl-p-tolu	idine	1		I	<u></u>	
	Acute fish toxicity	LC50	46 mg/l	96 h		ECOTOX (ECOTOXicology databaye; Acute To	
	Acute algae toxicity	ErC50	24,37 mg/l	72 h	Raphidocelis subcapitata	QSAR Toolbox Version 2.3 (2012)	other: estimated data
	Acute crustacea toxicity	EC50	15,259 mg/l	48 h		ECOSAR v1.1 Class-specific Estimations,	other: Modeling database
	Acute bacteria toxicity	EC 50	13,6 mg/l	0,5 h	Photobacterium phosphoreum	Water Pollution Research Journal of Cana	

12.2 Persistence and degradability

The product has not been tested.

CAS No	Chemical name						
	Method	Value	d	Source			
	Evaluation	l .	l .				
92128-66-0	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5 % n-hexane						
	Biodegradation	98 %	28				
	Readily biodegradable (according to OECD criteria).						

12.3 Bioaccumulative potential

The product has not been tested.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
106-97-8	Butane	1,09
74-98-6	Propane	1,09
99-97-8	N,N-dimethyl-p-toluidine	53,7

BCF

D 0.	70 1							
CAS No	Chemical name	BCF	Species	Source				
99-97-8	N,N-dimethyl-p-toluidine	33	Fish	PBT profiler, Office				

12.4 Mobility in soil

The product has not been tested.

12.5 Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6 Other adverse effects

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7. Other adverse effects

No information available.

Further information

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

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13. Disposal considerations

13.1 Waste treatment methods

Disposal recommendations

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

List of Wastes Code - residues/unused products

160504 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; gases in pressure containers (including halons) containing hazardous substances; hazardous waste

Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

14. Transport information

Land transport (ADR/RID)

14.1 UN-numberUN195014.2 UN proper shipping name:AEROSOLS14.3 Transport hazard class(es):214.4 Packing group:-

Hazard label:



Classification code:

Special Provisions: 190 327 344 625 Limited quantity: 1 L

Excepted quantity:

Excepted quantity:

Transport category:

Tunnel restriction code:

D

Inland waterways transport (ADN)

14.1 UN-number UN1950
14.2 UN proper shipping name: AEROSOLS
14.3 Transport hazard class(es): 2

14.4 Packing group: Hazard label:



E0

Classification code:

Special Provisions: 190 327 344 625 Limited quantity: 1 L

Excepted quantity:

Marine transport (IMDG)

14.1 UN-numberUN195014.2 UN proper shipping name:AEROSOLS14.3 Transport hazard class(es):2.1

14.3 Transport hazard class(es): 14.4 Packing group:





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Special Provisions: 63, 190, 277, 327, 344, 381, 959

Limited quantity: 1000 mL Excepted quantity: E0 EMS: F-D, S-U

Air transport (ICAO-TI/IATA-DGR)

14.1 UN-number UN1950

14.2 UN proper shipping name: AEROSOLS, FLAMMABLE

14.3 Transport hazard class(es):

14.4 Packing group:

Hazard label:

2.1



Special Provisions: A145 A167 A802

Limited quantityPassenger: 30 kg G
Passenger LQ: Y203
Excepted quantity: E0

14.5 Umweltgefahren

ENVIRONMENTALLY HAZARDOUS: yes



Danger releasing substance: HYDROCARBONS, LIQUID, N.O.S.

14.6 Special precautions for user

Warning: Flammable gases.

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

not applicable

15. Regulatory information

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

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 40

2010/75/EU (VOC): 100 % (605 g/l) 2004/42/EC (VOC): 100 % (605 g/l)

Information according to 2012/18/EU P3a FLAMMABLE AEROSOLS

(SEVESO III):

Additional information: E2

Additional information:

To follow: 850/2004/EC, 79/117/EEC, 689/2008/EC, 2008/47/EC Aerosol directive (75/324/EEC).

National regulatory information

Employment restrictions:

Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

Water contaminating class (D): 2 - obviously hazardous to water



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15.2 Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

16. Other information

Changes in section(s): 3, 5, 6, 7, 8, 9, 11, 12, 14

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service

LC50: Lethal concentration, 50 %

LD50: Lethal dose, 50 %

CLP: Classification, labelling and Packaging

REACH: Registration, Evaluation and Authorization of Chemicals

GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals

UN: United Nations

DNEL: Derived No Effect Level DMEL: Derived Minimal Effect Level

PNEC: Predicted No Effect Concentration

ATE: Acute toxicity estimate

LL50: Lethal loading, 50%

EL50: Effect loading, 50 %

EC50: Effective Concentration 50 %

ErC50: Effective Concentration 50 %, growth rate

NOEC: No Observed Effect Concentration

BCF: Bio-concentration factor

PBT: persistent, bioaccumulative, toxic

vPvB: very persistent, very bioaccumulative

RID: Regulations concerning the international carriage of dangerous goods by rail

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au

transport international des marchandises dangereuses par voies de navigation intérieures)

EmS: Emergency Schedules

MFAG: Medical First Aid Guide

ICAO: International Civil Aviation Organization

MARPOL: International Convention for the Prevention of Marine Pollution from Ships

IBC: Intermediate Bulk Container VOC: Volatile Organic Compounds SVHC: Substance of Very High Concern

Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]

Classification	Classification procedure
Aerosol 1; H222-H229	On basis of test data
Asp. Tox. 1; H304	Calculation method
Skin Irrit. 2; H315	Bridging principle "Aerosols"
STOT SE 3; H336	Bridging principle "Aerosols"
Aguatic Chronic 2; H411	Calculation method

Relevant H and EUH statements (number and full text)

H220 Extremely flammable gas.

H222 Extremely flammable aerosol.

H225 Highly flammable liquid and vapour.

H229 Pressurised container: May burst if heated.

H280 Contains gas under pressure; may explode if heated.

H301 Toxic if swallowed

H304 May be fatal if swallowed and enters airways.



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- H311 Toxic in contact with skin.
- H315 Causes skin irritation.
- H331 Toxic if inhaled.
- H336 May cause drowsiness or dizziness.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H411 Toxic to aquatic life with long lasting effects.
- H412 Harmful to aquatic life with long lasting effects.

The information of this MSDS is based on the present state of our knowledge and meets the requirements of EU and national laws. The user's working conditions however, are beyond our knowledge and control. The product is not to be used for purposes other than those specified under Section 1 without a written permission. It remains the responsibility of the user to ensure that the necessary steps are taken to meet the laws and regulations. Handling of the product may only be done by people above 18 years of age, who are satisfactorily informed of how to do the work, the hazardous properties and necessary safety precautions. The information given in this SDS is to describe the product only in terms of health and safety requirements and should not, therefore, be construed as guaranteeing specific properties.

