



Safety Data Sheet

according to Regulation (EC) No 1907/2006

Phantom Non Ferro EP 90.120.0250

Revision date: 01.01.2023

Product code: 44

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

1.1. Product identifier

Phantom Non Ferro EP 90.120.0250

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

Use of the substance/mixture

Cutting oil

1.3. Details of the supplier of the safety data sheet

Company name:	Van Ommen BV	
Street:	Voorste Kerkweg 4	
Place:	NL-7361 ET Beekbergen	
Telephone:	0031 (0)55 5067600	Telefax: 0031 (0)55 5067601

1.4. Emergency telephone number:

Emergency telephone number (24h) + 44 1235 239670 (en)

Further Information

Reserved for industrial and professional use.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

This mixture is not classified as hazardous in accordance with Regulation (EC) No 1272/2008.

2.2. Label elements

Regulation (EC) No 1272/2008

Special labelling of certain mixtures

EUH208	Contains Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts, Triisobutyl phosphate. May produce an allergic reaction.
EUH210	Safety data sheet available on request.

2.3. Other hazards

Avoid release to the environment.

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

High slip hazard because of leaking or spilled product.

SECTION 3: Composition/information on ingredients

3.2. Mixtures



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Hazardous components

CAS No	Chemical name	Quantity
	EC No	
	Index No	
	REACH No	
	Classification (Regulation (EC) No 1272/2008)	
8042-47-5	White mineral oil (petroleum)	15 - < 20 %
	232-455-8	
	01-2119487078-27	
	Asp. Tox. 1; H304	
1471316-72-9	Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts	0.1 - < 1 %
	939-603-7	
	01-2119978241-36	
	Skin Sens. 1; H317	
126-71-6	Triisobutyl phosphate	0.1 - < 1 %
	204-798-3	
	01-2119957118-32	
	Skin Sens. 1B; H317	
106-20-7	Di(2-ethylhexyl)-amin	0.1 - < 1 %
	203-372-4	
	01-2119977118-28	
	Acute Tox. 3, Acute Tox. 3, Acute Tox. 4, Skin Corr. 1B, Aquatic Chronic 1; H331 H311 H302 H314 H410	

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

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
8042-47-5	232-455-8	White mineral oil (petroleum)	15 - < 20 %
		inhalation: LC50 = > 5 mg/l (vapours); dermal: LD50 = > 2001 mg/kg; oral: LD50 = >5000 mg/kg	
1471316-72-9	939-603-7	Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts	0.1 - < 1 %
		dermal: LD50 = 2000 mg/kg; oral: LD50 = 10000-20000 mg/kg	
126-71-6	204-798-3	Triisobutyl phosphate	0.1 - < 1 %
		dermal: LD50 = 5000 mg/kg; oral: LD50 = 5000 mg/kg	
106-20-7	203-372-4	Di(2-ethylhexyl)-amin	0.1 - < 1 %
		inhalation: ATE = 3 mg/l (vapours); inhalation: ATE = 0,5 mg/l (dusts or mists); dermal: LD50 = 956 mg/kg; oral: LD50 = 847-1149 mg/kg Aquatic Chronic 1; H410: M=1	

Further Information

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

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Seek medical attention if problems persist. No administration in cases of unconsciousness or cramps. First aider:
Pay attention to self-protection!
Symptoms can occur only after several hours.

After inhalation

Move victim to fresh air. Put victim at rest and keep warm.

After contact with skin

Remove contaminated, saturated clothing immediately. After contact with skin, wash immediately with plenty of water and soap. Seek medical attention if problems persist.

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After contact with eyes

In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Consult an ophthalmologist.

After ingestion

Do NOT induce vomiting.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

Water fog. Extinguishing powder. Carbon dioxide. Foam.

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

In case of fire may be liberated:

Carbon dioxide (CO₂).

Carbon monoxide

Nitrogen oxides (NO_x).

5.3. Advice for firefighters

Do not inhale explosion and combustion gases. Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures****General advice**

Wear personal protection equipment. Do not breathe gas/fumes/vapour/spray. Provide adequate ventilation.

For non-emergency personnel

Special danger of slipping by leaking/spilling product.

For emergency responders

Self-protection of the first aider Remove affected person from the danger area and lay down. Do not leave affected person unattended. Remove all sources of ignition. Use appropriate respiratory protection.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Prevent spread over a wide area (e.g. by containment or oil barriers). Treat the recovered material as prescribed in the section on waste disposal.

Collect in closed containers for disposal.

6.3. Methods and material for containment and cleaning up**For containment**

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

Clean contaminated articles and floor according to the environmental legislation.

Clean with detergents. Avoid solvent cleaners.

6.4. Reference to other sections

Disposal: see section 13

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

Avoid oil mist

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Use only in well-ventilated areas.

When using do not eat, drink or smoke.

Further information on handling

High slip hazard because of leaking or spilled product.

7.2. Conditions for safe storage, including any incompatibilities
Requirements for storage rooms and vessels

Keep the packing dry and well sealed to prevent contamination and absorption of humidity.

Recommended storage temperature: 5-40 °C

Hints on joint storage

Keep away from food, drink and animal feedingstuffs.

Maximum period of storage (time): 3

Further information on storage conditions

Protect from sunlight. Store in a well-ventilated place.

7.3. Specific end use(s)

Observe technical data sheet.

Reserved for industrial and professional use.

SECTION 8: Exposure controls/personal protection
8.1. Control parameters
Occupational exposure limits

CAS No	Substance	ppm	mg/m ³	fib/cm ³	Category	Origin
122-39-4	Diphenylamine	-	10		TWA (8 h)	
		-	20		STEL (15 min)	



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DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
8042-47-5	White mineral oil (petroleum)			
Worker DNEL, long-term		inhalation	systemic	164,56 mg/m ³
Worker DNEL, long-term		dermal	systemic	217,05 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	34,78 mg/m ³
Consumer DNEL, long-term		dermal	systemic	93,02 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	25 mg/kg bw/day
1471316-72-9	Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts			
Worker DNEL, long-term		inhalation	systemic	35,26 mg/m ³
Worker DNEL, long-term		dermal	systemic	25 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	8,7 mg/m ³
Consumer DNEL, long-term		dermal	systemic	12,5 mg/kg bw/day
Consumer DNEL, long-term		dermal	local	0,518 mg/cm ²
Consumer DNEL, long-term		oral	systemic	2,5 mg/kg bw/day
126-71-6	Triisobutyl phosphate			
Worker DNEL, long-term		inhalation	systemic	50 mg/m ³
Worker DNEL, long-term		dermal	systemic	4,25 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	8,89 mg/m ³
Consumer DNEL, long-term		dermal	systemic	2,13 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	2,13 mg/kg bw/day
106-20-7	Di(2-ethylhexyl)-amin			
Worker DNEL, long-term		inhalation	systemic	1,76 mg/m ³
Worker DNEL, long-term		dermal	systemic	0,25 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	0,435 mg/m ³
Consumer DNEL, long-term		dermal	systemic	0,125 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	0,125 mg/kg bw/day

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PNEC values

CAS No	Substance	Value
Environmental compartment		
1471316-72-9	Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts	
Freshwater		0,1 mg/l
Marine water		0,1 mg/l
Freshwater sediment		45211 mg/kg
Marine sediment		45211 mg/kg
Micro-organisms in sewage treatment plants (STP)		1000 mg/l
Soil		36739 mg/kg
126-71-6	Triisobutyl phosphate	
Freshwater		0,014 mg/l
Marine water		0,001 mg/l
Freshwater sediment		2,05 mg/kg
Marine sediment		0,205 mg/kg
Micro-organisms in sewage treatment plants (STP)		3,72 mg/l
Soil		0,426 mg/kg
106-20-7	Di(2-ethylhexyl)-amin	
Freshwater		0,001 mg/l
Marine water		0 mg/l
Freshwater sediment		43,6 mg/kg
Marine sediment		4,36 mg/kg
Micro-organisms in sewage treatment plants (STP)		1,8 mg/l
Soil		0,2 mg/kg

8.2. Exposure controls**Appropriate engineering controls**

If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.

Individual protection measures, such as personal protective equipment**Eye/face protection**

EN 166

Hand protection

Protect skin by using skin protective cream.
Wash hands before breaks and after work.

Skin protection

Chemical resistant safety shoes. Take off immediately all contaminated clothing.
Thorough skin-cleansing after handling the product. Set out skin protection guidelines.

Respiratory protection

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

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Environmental exposure controls

Do not allow to enter into surface water or drains.

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

Physical state:	liquid	
Colour:	yellow	
Odour:	characteristic	
		Test method
Boiling point or initial boiling point and boiling range:	>280 °C	
Lower explosion limits:	1 vol. %	
Upper explosion limits:	10 vol. %	
Flash point:	165 °C	DIN EN 57
pH-Value:	not applicable	
Viscosity / kinematic: (at 40 °C)	23 mm ² /s	ASTM D 7042
Vapour pressure: (at 20 °C)	0,05 hPa	
Density (at 20 °C):	0,89 g/cm ³	EN ISO 12185

SECTION 10: Stability and reactivity
10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

10.4. Conditions to avoid

Protect against: heat.

10.5. Incompatible materials

The following must be prevented: Oxidizing agents, strong. acid.

10.6. Hazardous decomposition products

Hazardous decomposition products: none

SECTION 11: Toxicological information
11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008
Toxicokinetics, metabolism and distribution

There are no data available on the preparation/mixture itself.

Data apply to the main component.

Acute toxicity

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

ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) 956000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) 500,0 mg/l



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CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
8042-47-5	White mineral oil (petroleum)				
	oral	LD50 >5000 mg/kg	Rat	ECHA	OECD 401
	dermal	LD50 > 2001 mg/kg	Rabbit	ECHA	OECD 402
	inhalation (4 h) vapour	LC50 > 5 mg/l	Rat	ECHA	OECD 403
1471316-72-9	Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts				
	oral	LD50 10000-20000 mg/kg	Rat	ECHA	
	dermal	LD50 2000 mg/kg	Rat	ECHA	
126-71-6	Triisobutyl phosphate				
	oral	LD50 5000 mg/kg	Rat	ECHA	
	dermal	LD50 5000 mg/kg	Rabbit	ECHA	
106-20-7	Di(2-ethylhexyl)-amin				
	oral	LD50 847-1149 mg/kg	Rat	ECHA	
	dermal	LD50 956 mg/kg	Rabbit		Union Carbide 1968
	inhalation vapour	ATE 3 mg/l			
	inhalation dust/mist	ATE 0,5 mg/l			

Irritation and corrosivity

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

Sensitising effects

Contains Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts, Triisobutyl phosphate. May produce an allergic reaction.

Carcinogenic/mutagenic/toxic effects for reproduction

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

STOT-single exposure

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

STOT-repeated exposure

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

Aspiration hazard

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

Additional information on tests

No risks worthy of mention. Practical experience.

The statement is derived from the properties of the single components.

The classification was undertaken in accordance with the calculation method governed by the Preparations Directive (1999/45/EC).

11.2. Information on other hazards



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Endocrine disrupting properties

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

SECTION 12: Ecological information

12.1. Toxicity

The statement is derived from the properties of the components.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
8042-47-5	White mineral oil (petroleum)					
	Acute fish toxicity	LC50 >1000 mg/l	96 h	Leuciscus idus	ECHA	OECD 203
	Acute algae toxicity	ErC50 > 100 mg/l	72 h	Pseudokirchneriella subcapitata		
	Acute crustacea toxicity	EC50 > 100 mg/l	48 h	Daphnia magna	ECHA	OECD 202
	Fish toxicity	NOEC > 1000 mg/l	28 d	QSAR	ECHA	
	Crustacea toxicity	NOEC > 1000 mg/l	21 d	Daphnia magna		
1471316-72-9	Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts					
	Acute fish toxicity	LC50 > 100 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)		OECD 203
	Acute algae toxicity	ErC50 > 1000 mg/l	72 h	Pseudokirchneriella subcapitata		OECD 201
	Acute crustacea toxicity	EC50 > 100 mg/l	48 h	Daphnia magna		OECD 202
	Algae toxicity	NOEC > 1000 mg/l	3 d	Scenedesmus subspicatus		OECD 201
	Acute bacteria toxicity	(EC50 >10000 mg/l)				
106-20-7	Di(2-ethylhexyl)-amin					
	Acute fish toxicity	LC50 < 5 mg/l	96 h	Danio rerio	Echa	
	Acute algae toxicity	ErC50 1,55 mg/l	96 h	freshwater algae		
	Acute crustacea toxicity	EC50 2,2 mg/l	48 h	Daphnia magna		
	Algae toxicity	NOEC 0,14 mg/l	4 d	freshwater algae		
	Crustacea toxicity	NOEC 0,0069 mg/l	21 d	Daphnia magna		OECD 211

12.2. Persistence and degradability

The product has not been tested.



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CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
8042-47-5	White mineral oil (petroleum)			
	OECD	0%	28	
	Not easily bio-degradable (according to OECD-criteria).			
1471316-72-9	Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts			
	RA_CAS 70024-69-0, OECD 301D	8,0%	28	
	Not easily bio-degradable (according to OECD-criteria).			
126-71-6	Triisobutyl phosphate			
	OECD Guideline 301 B	70-80%	28	
	Easily biodegradable (concerning to the criteria of the OECD)			

12.3. Bioaccumulative potential

The product has not been tested.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
8042-47-5	White mineral oil (petroleum)	> 4
1471316-72-9	Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts	6,91
126-71-6	Triisobutyl phosphate	3,72
106-20-7	Di(2-ethylhexyl)-amin	7,3

12.4. Mobility in soil

in delivery condition: liquid

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.

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

12.6. Endocrine disrupting properties

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

Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Do not allow to enter into surface water or drains. Dispose of contents/container to an appropriate recycling or disposal facility. Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste. Non-contaminated packages may be recycled.

List of Wastes Code - residues/unused products

120107 WASTES FROM SHAPING AND PHYSICAL AND MECHANICAL SURFACE TREATMENT OF METALS AND PLASTICS; wastes from shaping and physical and mechanical surface treatment of metals and plastics; mineral-based machining oils free of halogens (except emulsions and solutions); hazardous waste

List of Wastes Code - used product

120109 WASTES FROM SHAPING AND PHYSICAL AND MECHANICAL SURFACE TREATMENT OF METALS AND PLASTICS; wastes from shaping and physical and mechanical surface treatment of metals and plastics; machining emulsions and solutions free of halogens; hazardous waste



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Contaminated packaging

Non-contaminated packages may be recycled.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number: No dangerous good in sense of these transport regulations.

14.2. UN proper shipping name: No dangerous good in sense of these transport regulations.

14.3. Transport hazard class(es): No dangerous good in sense of these transport regulations.

14.4. Packing group: No dangerous good in sense of these transport regulations.

Other applicable information (land transport)

Not restricted

Inland waterways transport (ADN)

14.1. UN number or ID number: No dangerous good in sense of these transport regulations.

14.2. UN proper shipping name: No dangerous good in sense of these transport regulations.

14.3. Transport hazard class(es): No dangerous good in sense of these transport regulations.

14.4. Packing group: No dangerous good in sense of these transport regulations.

Other applicable information (inland waterways transport)

Not restricted

Marine transport (IMDG)

14.1. UN number or ID number: No dangerous good in sense of these transport regulations.

14.2. UN proper shipping name: No dangerous good in sense of these transport regulations.

14.3. Transport hazard class(es): No dangerous good in sense of these transport regulations.

14.4. Packing group: -

Other applicable information (marine transport)

Not restricted

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: No dangerous good in sense of these transport regulations.

14.2. UN proper shipping name: No dangerous good in sense of these transport regulations.

14.3. Transport hazard class(es): No dangerous good in sense of these transport regulations.

14.4. Packing group: -

IATA-packing instructions - Passenger: Not restricted

Other applicable information (air transport)

Not restricted

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

Personal protection equipment: see section 8

14.7. Maritime transport in bulk according to IMO instruments

not applicable

SECTION 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 75

2010/75/EU (VOC): <0,1

2004/42/EC (VOC): <0,1

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According to EC directives or the corresponding national regulations the product does not have to be labelled.

National regulatory information

Water hazard class (D): 1 - slightly hazardous to water

15.2. Chemical safety assessment

For the following substances of this mixture a chemical safety assessment has been carried out:
Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts

SECTION 16: Other information**Changes**

This data sheet contains changes from the previous version in section(s): 1,2,4,6,7,9,11,13,14.
AICS (Australien), DSL (Kanada), IECSC (China), REACH (Europäische Union), ENCS (Japan),
ISHL (Japan), KECI (Korea), NZIoC (Neuseeland), PICCS (Philippinen), TSCA (USA)

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Abbreviations and acronyms

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
CAS: Chemical Abstracts Service
DNEL: Derived No Effect Level
DMEL: Derived Minimal Effect Level
PNEC: Predicted No Effect Concentration
ATE: Acute toxicity estimate
LC50: Lethal concentration, 50%
LD50: Lethal dose, 50%
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
ADR: Accord européen sur le transport des marchandises dangereuses par Route
(European Agreement concerning the International Carriage of Dangerous Goods by Road)
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)
IMDG: International Maritime Code for Dangerous Goods
EmS: Emergency Schedules
MFAG: Medical First Aid Guide
IATA: International Air Transport Association
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
Repr. - Reproduktionstoxizität
Asp. Tox. - Aspirationstoxizität
Acute Tox. - Akute Toxizität
Aquatic Acute - Akute aquatische Toxizität
Aquatic Chronic - Chronische aquatische Toxizität
Eye Dam. - Augenschaden/-reizung
Eye Irrit. - Augenreizung
Skin Corr. - Ätzwirkung auf die Haut
Skin Irrit. - Hautreizung
Skin Sens. - Hautallergen
Resp. Sens. - Inhalationsallergen
STOT SE - Spezifische Zielorgan-Toxizität - einmalige Exposition
STOT RE - Spezifische Zielorgan-Toxizität - wiederholte Exposition
VOC - Flüchtige organische Verbindungen
Acute Tox: Acute toxicity
Asp. Tox: Aspiration hazard
Skin Corr: Skin corrosion
Skin Sens: Skin sensitisation

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STOT RE: Specific target organ toxicity - repeated exposure

Aquatic Acute: Acute aquatic hazard

Aquatic Chronic: Chronic aquatic hazard

Relevant H and EUH statements (number and full text)

H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H331	Toxic if inhaled.
H410	Very toxic to aquatic life with long lasting effects.
EUH208	Contains Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts, Triisobutyl phosphate. May produce an allergic reaction.
EUH210	Safety data sheet available on request.

Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)