

Metaflux 70-45 Zinc-Spray

Print date: 12.08.2019

Product code: 70-45

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

1.1. Product identifier

Metaflux 70-45 Zinc-Spray

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

Use of the substance/mixture

Aerosol

Uses advised against

none/none

1.3. Details of the supplier of the safety data sheet

Company name: Metatec Limited
Street: Fitzherbert Road
Place: Portsmouth PO6 1RU
Telephone: Tel. +44 (0) 2392 381832
e-mail: sales@metatec.limited
Internet: <http://www.metateclimited.com>
Responsible Department: sales@metatec.limited

T

1.4. Emergency telephone number:

Swiss Toxicological Information Centre (STIC) CH-8030 Zürich National 24 h
emergency telephone: 145 (Outside of Switzerland: +41 44 251 51 51)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Indications of danger: F+ - Extremely flammable, N - Dangerous for the environment

R phrases:

Extremely flammable.

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

GHS classification

Hazard categories:

Aerosol: Aerosol 1

Serious eye damage/eye irritation: Eye Irrit. 2

Hazardous to the aquatic environment: Aquatic Acute 1

Hazardous to the aquatic environment: Aquatic Chronic 1

Hazard Statements:

Extremely flammable aerosol.

Pressurised container: May burst if heated.

Causes serious eye irritation.

Very toxic to aquatic life with long lasting effects.

2.2. Label elements

Signal word: Danger

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Pictograms:

GHS02-GHS07-GHS09



Hazard statements

- | | |
|------|---|
| H222 | Extremely flammable aerosol. |
| H229 | Pressurised container: May burst if heated. |
| H319 | Causes serious eye irritation. |
| H410 | Very toxic to aquatic life with long lasting effects. |

Precautionary statements

- | | |
|-----------|--|
| 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. |
| P251 | Do not pierce or burn, even after use. |
| P391 | Collect spillage. |
| P410+P412 | Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. |
| P501 | Dispose of contents/container to in accordance with official regulations. |

2.3. Other hazards

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

SECTION 3: Composition/information on ingredients

3.2. Mixtures

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Hazardous components

EC No	Chemical name	Quantity
CAS No	Classification	
Index No	GHS classification	
REACH No		
204-065-8	dimethyl ether	45 - < 50 %
115-10-6	F+ - Extremely flammable R12	
603-019-00-8	Flam. Gas 1; H220	
01-2119472128-37		
231-175-3	zinc powder - zinc dust (stabilized)	25 - < 30 %
7440-66-6	N - Dangerous for the environment R50-53	
030-001-01-9	Aquatic Acute 1, Aquatic Chronic 1; H400 H410	
200-662-2	acetone; propan-2-one; propanone	10 - < 15 %
67-64-1	F - Highly flammable, Xi - Irritant R11-36-66-67	
606-001-00-8	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336	
01-2119471330-49		
215-535-7	xylene	5 - < 10 %
1330-20-7	Xn - Harmful, Xi - Irritant R10-20/21-38	
601-022-00-9	Flam. Liq. 3, Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2; H226 H312 H332 H315	
919-446-0	Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	1 - < 5 %
	Xn - Harmful, N - Dangerous for the environment R10-51-53-65-66-67	
	Flam. Liq. 3, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H226 H336 H304 H411	
203-603-9	2-methoxy-1-methylethyl acetate	1 - < 5 %
108-65-6	Xi - Irritant R10-36	
	Flam. Liq. 3, Eye Irrit. 2; H226 H319	
01-2119475791-29		
215-222-5	zinc oxide	1 - < 5 %
1314-13-2	N - Dangerous for the environment R50-53	
030-013-00-7	Aquatic Acute 1, Aquatic Chronic 1; H400 H410	

Full text of R and H phrases: see Section 16.

Further Information

Product does not contain listed SVHC substances.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In case of accident or if you feel unwell, seek medical advice immediately (show safety data sheet if possible).

After inhalation

In case of accident by inhalation: remove casualty to fresh air and keep at rest. In case of irritation of the respiratory tract seek medical advice.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. In case of skin irritation, seek medical treatment.

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. In case of troubles or persistent

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symptoms, consult an ophthalmologist.

After ingestion

If swallowed, immediately drink: Water. Never give anything by mouth to an unconscious person or a person with cramps. Do not induce vomiting. Caution if victim vomits: Risk of aspiration!

4.2. Most important symptoms and effects, both acute and delayed

No symptoms known up to now.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Foam. Carbon dioxide. Extinguishing powder.

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

Combustible. Vapours may form explosive mixtures with air. Can be released in case of fire: Carbon dioxide (CO₂). Carbon monoxide.

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical resistant suit.

Additional information

Use water spray/stream to protect personnel and to cool endangered containers. Use a water spray jet to knock down vapours/gases/mists. Contaminated fire-fighting water must be collected separately. Do not empty into drains or the aquatic environment. In case of fire and/or explosion do not breathe fumes.

SECTION 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, eye and clothing. Wear personal protection equipment.

6.2. Environmental precautions

Do not empty into drains or the aquatic environment. Explosion hazard. Eliminate leaks immediately. Prevent spreading over great surfaces (e.g. by damming or installing oil booms). In case of gas being released or leakage into waters, ground or the drainage system, the appropriate authorities must be informed.

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 assimilated material according to the section on waste disposal. Ventilate affected area.

6.4. Reference to other sections

See protective measures under point 7 and 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Use only in well-ventilated areas. Take precautionary measures against static discharges. Do not spray into flames or ignition sources. Due to danger of explosion, prevent leakage of vapours into cellars, flues and ditches.

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Heating causes rise in pressure with risk of bursting.

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7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place. Keep away from sources of ignition - No smoking.

Advice on storage compatibility

Do not store together with: Radioactive substances. Infectious substances. Organic peroxides
Oxidizing solids Oxidizing liquids Pyrophoric liquids and solids. flammable substances. Substances or mixtures which, in contact with water emit flammable gases.

Further information on storage conditions

Recommended storage temperature: 10-30°C Do not store at temperatures over: 50°C

7.3. Specific end use(s)

Observe technical data sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
108-65-6	1-Methoxypropyl acetate	50	274		TWA (8 h)	WEL
		100	548		STEL (15 min)	WEL
67-64-1	Acetone	500	1210		TWA (8 h)	WEL
		1500	3620		STEL (15 min)	WEL
115-10-6	Dimethyl ether	400	766		TWA (8 h)	WEL
		500	958		STEL (15 min)	WEL
1330-20-7	Xylene: mixed isomers	50	220		TWA (8 h)	WEL
		100	441		STEL (15 min)	WEL

Biological Monitoring Guidance Values (EH40)

CAS No	Substance	Parameter	Value	Test material	Sampling time
1330-20-7	Xylene, o-, m-, p- or mixed isomers	methyl hippuric acid	650 mmol/mol	urine	Post shift

8.2. Exposure controls



Appropriate engineering controls

If suction of the immediate vicinity is impossible or insufficient, adequate airing of the working place must be ensured.

Protective and hygiene measures

Take off immediately all contaminated clothing. Wash hands before breaks and at the end of work.
When using do not eat, drink or smoke.

Eye/face protection

Wear safety glasses; chemical goggles (if splashing is possible).

Hand protection

In case of prolonged or frequently repeated skin contact:

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Pull-over gloves of rubber. DIN EN 374

Suitable material:

(penetration time (maximum wearing period): ≥ 4 h):

Butyl rubber. (0,5mm)

In case of reutilization, clean gloves before taking off and store in well-aired place.

(penetration time (maximum wearing period): ≥ 4 h):

Butyl rubber. (0,5mm)

In case of reutilization, clean gloves before taking off and store in well-aired place.

Skin protection

Protective clothing.

Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required.

Respiratory protection required in case of:

exceeding critical value

insufficient ventilation.

Suitable respiratory protective equipment: Combination filter device (DIN EN 141).. Type A/P3

Only use breathing apparatus with CE-label including the four-digit identification number.

Environmental exposure controls

Do not empty into drains or the aquatic environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Aerosol
Colour:	grey
Odour:	characteristic

Test method

pH-Value:	N/A
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Changes in the physical state

Initial boiling point and boiling range:	N/A
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Flash point:	not determined
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Explosive properties

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

Lower explosion limits:	not determined
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Upper explosion limits:	not determined
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Ignition temperature:	not determined
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Oxidizing properties

none/none

Vapour pressure:	not determined
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Density:	0.9801 g/cm ³
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Water solubility:	not miscible
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Viscosity / dynamic:	N/A
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Solvent content:	68,76 % - Data concerning the Directive 1999/13/EC on the limitation of emissions of volatile organic compounds (VOC-RL)
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SECTION 10: Stability and reactivity

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10.1. Reactivity

No information available.

10.2. Chemical stability

Stable under normal storage and handling conditions.

10.3. Possibility of hazardous reactions

Heating causes rise in pressure with risk of bursting.

10.4. Conditions to avoid

Keep away from heat. Ignition hazard.

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

In use, may form flammable/explosive vapour-air mixture. Can be released in case of fire: Carbon dioxide (CO₂). Carbon monoxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicokinetics, metabolism and distribution

No information available.

Acute toxicity

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

Acute toxicity

CAS No	Chemical name	Exposure routes	Method	Dose	Species	Source
115-10-6	dimethyl ether	inhalative (4 h) vapour	LC50	309 mg/l	Rat.	
67-64-1	acetone; propan-2-one; propanone	oral	LD50	5800 mg/kg	Rat.	RTECS
		dermal	LD50	20000 mg/kg	Rabbit.	IUCLID
		inhalative (4 h) vapour	LC50	76 mg/l	Rat.	MSDS extern
1330-20-7	xylene	oral	LD50	3523 mg/kg	Rat.	MSDS extern
		dermal	LD50	12126 mg/kg	Rabbit.	MSDS extern
		inhalative vapour	LC50	(27,124) mg/l	Rat.	MSDS extern
		inhalative aerosol	ATE	1,5 mg/l		
	Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)					
		oral	LD50	>15000 mg/kg	Rat.	Echa dossier
		dermal	LD50	3400 mg/kg	Rat.	Echa dossier
		inhalative (4 h) vapour	LC50	13,1 mg/l	Rat.	Echa dossier
108-65-6	2-methoxy-1-methylethyl acetate	oral	LD50	>=10000 mg/kg	Rat.	ECHA dossier
		dermal	LD50	>2000 mg/kg	Rat.	ECHA dossier
1314-13-2	zinc oxide	oral	LD50	> 5000 mg/kg	Rat.	IUCLID

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Irritation and corrosivity

Causes serious eye irritation.
Irritant effect on the skin: Not an irritant.

Sensitising effects

Based on available data, the classification criteria are not met.
no danger of sensitization. The statement is derived from the properties of the components.

STOT-single exposure

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

Severe effects after repeated or prolonged exposure

Based on available data, the classification criteria are not met.
dimethyl ether:
Chronic inhalative toxicity: NOAEL = 47106mg/m³ (Rat.)
OECD Guideline 452
xylene:
Subchronic oral toxicity (Rat.) LOAEL = 150mg/kg
acetone; propan-2-one; propanone:
Subchronic oral toxicity (90d): NOAEL = 900mg/m³ (Rat.)
ethylbenzene:
Subchronic oral toxicity (90d): NOAEL = 75 mg/kg (Rat.)
Chronic inhalative toxicity (24 m): NOAEC = 75 ppm (Rat.)
Lit.: ECHA dossier

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.
dimethyl ether:
Developmental toxicity/teratogenicity: NOAEL = 5000ppm
No experimental indications of mutagenicity in-vivo exist.
xylene:
Developmental toxicity/teratogenicity : NOAEL = 500ppm (OECD Guideline 414)
ethylbenzene:
OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test) = negative.
OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) = negative.
Lit: ECHA Dossier
zinc oxide
In-vitro mutagenicity: Ames test negative. (OECD 471)
2-methoxy-1-methylethyl acetate
OECD Guideline 471 (Bacterial Reverse Mutation Assay) = negative.

Aspiration hazard

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

Specific effects in experiment on an animal

No information available.

SECTION 12: Ecological information

12.1. Toxicity

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CAS No	Chemical name					
	Aquatic toxicity	Method	Dose	[h] [d]	Species	Source
115-10-6	dimethyl ether					
	Acute fish toxicity	LC50	>4100 mg/l	96 h	Poecilia reticulata	
	Acute crustacea toxicity	EC50	>4400 mg/l	48 h	Daphnia magna	
67-64-1	acetone; propan-2-one; propanone					
	Acute fish toxicity	LC50	5540 mg/l	96 h	Onchorhynchus mykiss	MSDS extern
	Acute crustacea toxicity	EC50	12600 mg/l	48 h	Daphnia magna	MSDS extern
1330-20-7	xylene					
	Acute fish toxicity	LC50	2,6 mg/l	96 h		MSDS extern
	Acute algae toxicity	ErC50	2,2 mg/l	72 h		
	Acute crustacea toxicity	EC50	1 mg/l	48 h	Daphnia magna	MSDS extern
	Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)					
	Acute fish toxicity	LC50	10-30 mg/l	96 h	Oncorhynchus mykiss	Echa dossier
	Acute algae toxicity	ErC50	4,1 mg/l	72 h		Echa dossier
	Acute crustacea toxicity	EC50	10-22 mg/l	48 h	Daphnia magna	Echa dossier
108-65-6	2-methoxy-1-methylethyl acetate					
	Acute fish toxicity	LC50	100 mg/l	96 h	Salmo gairdneri	ECHA dossier
	Acute algae toxicity	ErC50	>=1000 mg/l	96 h	Selenastrum capricornutum	ECHA dossier
	Acute crustacea toxicity	EC50	>=500 mg/l	48 h	Daphnia magna	ECHA dossier

12.2. Persistence and degradability

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
115-10-6	dimethyl ether			
	OECD 301D / EEC 92/69 annex V, C.4-E	5%	28	
	Not easily bio-degradable (according to OECD-criteria).			
1330-20-7	xylene			
	ASTM D1252-67	81%	5	
	COD/ThOD			
108-65-6	2-methoxy-1-methylethyl acetate			
	OECD guideline 301F	83	28	

12.3. Bioaccumulative potential

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
115-10-6	dimethyl ether	0,07
67-64-1	acetone; propan-2-one; propanone	-0,24
1330-20-7	xylene	3,82
108-65-6	2-methoxy-1-methylethyl acetate	1.2

BCF

CAS No	Chemical name	BCF	Species	Source
1330-20-7	xylene	4,9-25,9		

12.4. Mobility in soil

No information available.

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12.5. Results of PBT and vPvB assessment

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

12.6. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

Waste disposal according to official state regulations. Cleaned containers may be recycled.

Waste disposal number of waste from 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 dangerous substances
Classified as hazardous waste.

Waste disposal number of used product

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

Waste disposal number of contaminated packaging


150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by dangerous substances
Classified as hazardous waste.

Contaminated packaging

Handle contaminated packaging in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number:	UN1950
14.2. UN proper shipping name:	AEROSOLS
14.3. Transport hazard class(es):	2
Hazard label:	2.1
	
Classification code:	5F
Special Provisions:	190 327 344 625
Limited quantity:	1 L
Transport category:	2
Tunnel restriction code:	D

Other applicable information (land transport)

Excepted quantity: E0

Inland waterways transport (ADN)

14.1. UN number:	UN1950
14.2. UN proper shipping name:	AEROSOLS
14.3. Transport hazard class(es):	2
Hazard label:	2.1

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Classification code: 5F
Special Provisions: 190 327 344 625
Limited quantity: LQ 2

Other applicable information (inland waterways transport)

Excepted quantity: E0

Marine transport (IMDG)

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: 2, see SP63

Marine pollutant: YES
Special Provisions: 63, 190, 277, 327, 344, 959
Limited quantity: See SP277
EmS: F-D, S-U

Other applicable information (marine transport)

Excepted quantity: E0

Air transport (ICAO)

14.1. UN number: UN1950
14.2. UN proper shipping name: AEROSOLS, flammable
14.3. Transport hazard class(es): 2.1
Hazard label: 2.1



Special Provisions: A145 A167 A803
Limited quantity Passenger: 30 kg G
IATA-packing instructions - Passenger: 203
IATA-max. quantity - Passenger: 75 kg
IATA-packing instructions - Cargo: 203
IATA-max. quantity - Cargo: 150 kg

Other applicable information (air transport)

Excepted quantity: E0

Passenger-LQ: Y203

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: yes



Danger releasing substance: zinc powder - zinc dust (stabilized), zinc oxide

14.6. Special precautions for user

refer to chapter 6-8

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14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

not applicable

SECTION 15: Regulatory information

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

EU regulatory information

1999/13/EC (VOC): 68,76 %, VOC Directive 2004/42/EC: 673,917 g/l

Additional information

The preparation is dangerous in the sense of Directive 1999/45/EC.
This preparation is hazardous in the sense of regulation (EC) No 1272/2008 [GHS].
aerosol directive (75/324/EEC).
Regulation 96/82/EC for danger control following severe accidents with dangerous substances:
Appendix I, Part 2, No 8 (Seveso II)

National regulatory information

Employment restrictions: Observe employment restrictions for young people.
Water contaminating class (D): 2 - water contaminating

15.2. Chemical safety assessment

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

SECTION 16: Other information

Changes

Rev. 1,0 Initial release 12.02.2014

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)
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organization
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
NOAEL: No observed adverse effect level

Full text of R phrases referred to under Sections 2 and 3

10	Flammable.
11	Highly flammable.
12	Extremely flammable.
20/21	Harmful by inhalation and in contact with skin.
36	Irritating to eyes.
38	Irritating to skin.
50	Very toxic to aquatic organisms.
50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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- | | |
|----|---|
| 51 | Toxic to aquatic organisms. |
| 53 | May cause long-term adverse effects in the aquatic environment. |
| 65 | Harmful: may cause lung damage if swallowed. |
| 66 | Repeated exposure may cause skin dryness or cracking. |
| 67 | Vapours may cause drowsiness and dizziness. |

Full text of H statements referred to under Sections 2 and 3

- | | |
|------|---|
| H220 | Extremely flammable gas. |
| H222 | Extremely flammable aerosol. |
| H225 | Highly flammable liquid and vapour. |
| H226 | Flammable liquid and vapour. |
| H229 | Pressurised container: May burst if heated. |
| H304 | May be fatal if swallowed and enters airways. |
| H312 | Harmful in contact with skin. |
| H315 | Causes skin irritation. |
| H319 | Causes serious eye irritation. |
| H332 | Harmful if inhaled. |
| H336 | May cause drowsiness or dizziness. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H411 | Toxic to aquatic life with long lasting effects. |

Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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