



ALPINE C48							
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SECTION 1: Identification of the substance/mixture and of the company/undertaking							
<u>1.1. Product identifier</u> ALPINE C48							
1.2. Relevant identified uses of the si Use of the substance/mixture engine coolant Uses advised against No information available	ubstance or mixture and uses advised agains	<u>si</u>					
1.3. Details of the supplier of the safe Company name: Street: Place: Telephone: e-mail: Internet: Responsible Department:	ety data sheet Mitan Mineralöl GmbH Industriestraße 8 D-49577 Ankum +49 (0)5462/7470-50 info@mitan-oil.de www.mitan-oil.de Produktsicherheit / Product Safety sicherheitsdatenblatt@mitan-oil.de	Telefax: +49 (0)5462/7470-33					
<u>1.4. Emergency telephone</u> number:	Giftinformationszentrum Nord (Göttingen) +49 (0)551/19240						

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GB CLP Regulation

Acute Tox. 4; H302 Repr. 1B; H360FD STOT RE 2; H373

Full text of hazard statements: see SECTION 16.

2.2. Label elements

GB CLP Regulation

Hazard components for labelling

Ethane-1,2-diol

disodium tetraborate, anhydrous Danger

Signal word:

Pictograms:

P201



Hazard statements

H302	Harmful if swallowed.
H360FD	May damage fertility. May damage the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

Obtain special instructions before use.





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P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing
	protection.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P405	Store locked up.
P501	Dispose of contents / container in accordance with official regulations.

Special labelling of certain mixtures

Restricted to professional users.

2.3. Other hazards

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No information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization Inhibitor, Ethane-1,2-diol

Hazardous components

CAS No	Chemical name	Chemical name				
	EC No	Index No	REACH No			
	GHS Classification					
107-21-1	Ethane-1,2-diol			75 - 100 %		
	203-473-3	603-027-00-1	01-2119456816-28			
	Acute Tox. 4, STOT RE 2; H302 H	373				
17265-14-4	Disodium sebacate			1 - < 3 %		
	241-300-3		01-2120762063-61			
	Eye Irrit. 2; H319					
19766-89-3	Sodium 2-ethylhexanoate	1 - < 3 %				
	243-283-8		01-2119972937-17			
	Repr. 2; H361d					
1330-43-4	disodium tetraborate, anhydrous	0,3 - <= 1 %				
	215-540-4		01-2119490790-32			
	Repr. 1B, Eye Irrit. 2; H360FD H31					

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

Specific Conc. Limits, M-factors and ATE

CAS No	EC No Chemical name						
	Specific Conc	Specific Conc. Limits, M-factors and ATE					
107-21-1	07-21-1 203-473-3 Ethane-1,2-diol						
	dermal: LD50 = > 3500 mg/kg; oral: LD50 = 7712 mg/kg						
17265-14-4	.14-4 241-300-3 Disodium sebacate						
	dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 5000 mg/kg						
19766-89-3	243-283-8	Sodium 2-ethylhexanoate	1 - < 3 %				
	dermal: LD50 = > 2000 mg/kg; oral: LD50 = 2043 mg/kg						
1330-43-4	330-43-4 215-540-4 disodium tetraborate, anhydrous						
	inhalation: LC50 = > 2,04 mg/l (dusts or mists); dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 2500 mg/kg						





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Further Information

disodium tetraborate, anhydrous: This substance has been listed as SVHC (substance of very high concern) in the Candidate List according to Article 59 of REACH.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Take off contaminated clothing and wash it before reuse. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

After inhalation

Provide fresh air. Medical treatment necessary. Call a doctor if you feel unwell.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. In case of skin irritation, consult a physician.

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.

Remove contact lenses, if present and easy to do. Continue rinsing.

After ingestion

Rinse mouth thoroughly with water. Let water be drunken in little sips (dilution effect). Do NOT induce vomiting.

In all cases of doubt, or when symptoms persist, seek medical advice.

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.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Use water spray jet to protect personnel and to cool endangered containers.

Co-ordinate fire-fighting measures to the fire surroundings.

- alcohol resistant foam
- Extinguishing powder
- Water spray jet

Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

Non-flammable. Formation of toxic gases is possible during heating or in case of fire.

In case of fire may be liberated:

- Carbon monoxide (CO)
- Carbon dioxide (CO2).
- Pyrolysis products, toxic





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5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

Additional information

Suppress gases/vapours/mists with water spray jet.

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Dispose of waste according to applicable legislation.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

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

6.3. Methods and material for containment and cleaning up

For containment

Stop leak if safe to do so. Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

For cleaning up

Collect in closed and suitable containers for disposal. Treat the recovered material as prescribed in the section on waste disposal. Clean contaminated articles and floor according to the environmental legislation.

6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Always close containers tightly after the removal of product. Do not put any product-impregnated cleaning rags into your trouser pockets. Clear spills immediately. Use only in well-ventilated areas.

Advice on protection against fire and explosion

No special fire protection measures are necessary.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed and in a well-ventilated place. Keep only in the original container. Store in a cool dry place.

Hints on joint storage

Do not store together with:

- Materials capable of ignition under almost all normal temperature conditions

- Explosives





WEL

STEL (15 min)

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7.3. Specific end use(s)									
engine	engine coolant								
SECTION 8:	Exposure controls/personal protection								
8.1. Control g	parameters								
Exposure lim									
CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin			
1330-43-4	Disodium tetraborate, anhydrous	-	1		TWA (8 h)	WEL			
107-21-1	Ethane-1,2-diol, vapour	20	52		TWA (8 h)	WEL			

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DNEL/DMEL values

CAS No	Substance			
DNEL type		Exposure route	Effect	Value
107-21-1	Ethane-1,2-diol		· ·	
Worker DNEL	, long-term	inhalation	local	35 mg/m³
Worker DNEL	, long-term	dermal	systemic	106 mg/kg bw/day
Consumer DN	IEL, long-term	inhalation	local	7 mg/m³
Consumer DN	IEL, long-term	dermal	systemic	53 mg/kg bw/day
17265-14-4	Disodium sebacate			
Worker DNEL	, long-term	inhalation	systemic	35,26 mg/m ³
Worker DNEL	., long-term	dermal	systemic	10 mg/kg bw/day
Consumer DN	IEL, long-term	inhalation	systemic	8,7 mg/m³
Consumer DN	IEL, long-term	dermal	systemic	5 mg/kg bw/day
Consumer DN	IEL, long-term	oral	systemic	5 mg/kg bw/day
19766-89-3	Sodium 2-ethylhexanoate			
Worker DNEL	, long-term	inhalation	systemic	14 mg/m ³
Worker DNEL	, long-term	dermal	systemic	2 mg/kg bw/day
Consumer DN	IEL, long-term	inhalation	systemic	3,5 mg/m³
Consumer DN	IEL, long-term	dermal	systemic	1 mg/kg bw/day
Consumer DN	IEL, long-term	oral	systemic	1 mg/kg bw/day
1330-43-4	disodium tetraborate, anhydrous			
Worker DNEL	, long-term	inhalation	systemic	6,7 mg/m³
Worker DNEL	, long-term	inhalation	local	17,04 mg/m ³
Worker DNEL	, acute	inhalation	local	17,04 mg/m ³
Worker DNEL	., long-term	dermal	systemic	316,4 mg/kg bw/day
Consumer DN	IEL, long-term	inhalation	systemic	3,4 mg/m ³
Consumer DNEL, long-term		inhalation	local	17,04 mg/m ³
Consumer DN	IEL, acute	inhalation	local	17,04 mg/m ³
Consumer DN	IEL, long-term	dermal	systemic	159,5 mg/kg bw/day
Consumer DN	IEL, long-term	oral	systemic	0,79 mg/kg bw/day





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PNEC values	
CAS No Substance	
Environmental compartment	Value
107-21-1 Ethane-1,2-diol	
Freshwater	10 mg/l
Freshwater (intermittent releases)	10 mg/l
Marine water	1 mg/l
Freshwater sediment	37 mg/kg
Marine sediment	3,7 mg/kg
Nicro-organisms in sewage treatment plants (STP)	199,5 mg/l
Soil	1,53 mg/kg
17265-14-4 Disodium sebacate	
Freshwater	0,018 mg/l
Freshwater (intermittent releases)	0,18 mg/l
Marine water	0,002 mg/l
Freshwater sediment	0,548 mg/kg
Marine sediment	0,055 mg/kg
Micro-organisms in sewage treatment plants (STP)	10 mg/l
Soil	0,099 mg/kg
19766-89-3 Sodium 2-ethylhexanoate	
Freshwater	0,36 mg/l
Freshwater (intermittent releases)	0,493 mg/l
Marine water	0,036 mg/l
Freshwater sediment	0,301 mg/kg
Marine sediment	0,03 mg/kg
Micro-organisms in sewage treatment plants (STP)	71,7 mg/l
Soil	0,058 mg/kg
1330-43-4 disodium tetraborate, anhydrous	
Freshwater	2,9 mg/l
Freshwater (intermittent releases)	13,7 mg/l
Marine water	2,9 mg/l
Micro-organisms in sewage treatment plants (STP)	10 mg/l
Soil	5,7 mg/kg

8.2. Exposure controls



Appropriate engineering controls

Provide adequate ventilation as well as local exhaustion at critical locations.





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Protective and hygiene measures

Take off contaminated clothing and wash it before reuse.

Wash hands and face before breaks and after work and take a shower if necessary.

When using do not eat, drink, smoke, sniff. Keep away from food, drink and animal feedingstuffs.

Eye/face protection

During filling, metering, mixing and sampling must be used: Wear eye/face protection. 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. 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.

Recommended glove articles: EN ISO 374

Suitable material: NBR (Nitrile rubber); Butyl caoutchouc (butyl rubber)

Thickness of the glove material:

-NBR (Nitrile rubber): 0,4 mm

-Butyl caoutchouc (butyl rubber): 0,7mm

Breakthrough times and swelling properties of the material must be taken into consideration. Breakthrough time: > 8h

Skin protection

Wear suitable protective clothing. EN 14605

Respiratory protection

In case of inadequate ventilation wear respiratory protection. Combination filtering device Typ: A-P2 (EN 14387)

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

<u>9.</u>	1. Information on basic physical and cher	nical properties		
	Physical state:	Liquid		
	Colour:	blue-green		
	Odour:	characteristic		
	Odour threshold:	not determined		
				Test method
	pH-Value:		7,1	
	Changes in the physical state			
	Melting point/freezing point:		not determined	
	Boiling point or initial boiling point and boiling range:		165 °C	ASTM D 1120
	solidification temperature::		< -18 °C	DIN ISO 3016
	Flash point:		> 126,5 °C	DIN EN ISO 2719
	Flammability			
	Solid/liquid:		not applicable	
	Gas:		not applicable	
	Explosive properties The product is not: Explosive.			





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Lower explosion limits:	not determined						
Upper explosion limits:	not determined						
Auto-ignition temperature:	> 440 °C	DIN 51794					
Decomposition temperature:	not determined						
Oxidizing properties The product is not: oxidising.							
Vapour pressure: (at 20 °C)	0,2 hPa						
Density (at 20 °C):	1,122 g/cm³	DIN 51757					
Water solubility:	easily soluble						
Solubility in other solvents not determined							
Partition coefficient n-octanol/water:	not determined						
Viscosity / kinematic: (at 20 °C)	20 - 30 mm²/s	DIN 51562					
Relative vapour density:	not determined						
Evaporation rate:	not determined						
9.2. Other information							
Solid content:	not determined						

SECTION 10: Stability and reactivity

10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

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

Avoid: Thermal decomposition

10.5. Incompatible materials

Materials to avoid:

- Oxidising agent

10.6. Hazardous decomposition products

Hazardous combustion products:

- Carbon monoxide (CO)
- Carbon dioxide (CO2).
- Pyrolysis products, toxic

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in GB CLP Regulation

Acute toxicity

Harmful if swallowed.





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ATEmix calculated

ATE (oral) 500,0 mg/kg

CAS No	Chemical name	Chemical name							
	Exposure route	Dose		Species	Source	Method			
107-21-1	Ethane-1,2-diol			•					
	oral	LD50 mg/kg	7712	Rat	Study report (1968)	according to BASF-internal standards			
	dermal	LD50 mg/kg	> 3500	Mouse	Fundamental and Applied Toxicology 27: 1	LD50 derived from developmental toxicity			
17265-14-4	Disodium sebacate	Disodium sebacate							
	oral	LD50 mg/kg	> 5000	Rat	Study report (1978)	OECD Guideline 401			
	dermal	LD50 mg/kg	> 2000	Rat	Study report (1999)	OECD Guideline 402			
19766-89-3	Sodium 2-ethylhexanoate								
	oral	LD50 mg/kg	2043	Rat	Study report (1987)	OECD Guideline 401			
	dermal	LD50 mg/kg	> 2000	Rat	Study report (1986)	OECD Guideline 402			
1330-43-4	disodium tetraborate, a	nhydrous							
	oral	LD50 mg/kg	> 2500	Rat	Study report (1996)	EU Method B.1			
	dermal	LD50 mg/kg	> 2000	Rabbit	Study report (1985)	other: This study was carried out to com			
	inhalation (4 h) dust/mist	LC50 mg/l	> 2,04	Rat	Study report (1994)	OECD Guideline 403			

Irritation and corrosivity

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

May damage fertility. May damage the unborn child. (disodium tetraborate, anhydrous) Germ cell mutagenicity: Based on available data, the classification criteria are not met. Carcinogenicity: 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

May cause damage to organs through prolonged or repeated exposure. (Ethane-1,2-diol)

Aspiration hazard

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

Additional information on tests

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP]. Special hazards arising from the substance or mixture!

11.2. Information on other hazards





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Endocrine disrupting properties No information available.

SECTION 12: Ecological information

12.1. Toxicity

The product is not: Ecotoxic.

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CAS No Chemical name [h] | [d] Species Dose Source Method Aquatic toxicity 107-21-1 Ethane-1,2-diol Acute fish toxicity LC50 > 72860 96 h Pimephales promelas Environ. EPA mg/l Toxicology and 600/4-90/027. Chemistry, Vol. US Environmental Pro 96 h Pseudokirchneriella other: EPA Acute algae toxicity ErC50 6500 -Study report 13000 mg/l (1982) 600/9-78-018, subcapitata 1978 EC50 > 100 48 h Daphnia magna Study report OECD Guideline Acute crustacea toxicity (1998) 202 mg/l Fish toxicity NOEC 15380 7 d Pimephales promelas Environ. other: EPA 600/4-89/001. Toxicology and mg/l Chemistry, Vol. U.S. Environmen NOEC 8 d Scenedesmus REACh Algae toxicity > 100 OECD Guideline Registration mg/l quadricauda 201 Dossier NOEC 7500 -REACh other: ASTM Crustacea toxicity 21 d Daphnia magna Registration 15000 mg/l Dossier 17265-14-4 Disodium sebacate Acute fish toxicity LC50 > 100 96 h Danio rerio REACh **OECD** Guideline Registration 203 mg/l Dossier REACh ErC50 72 h Skeletonema ISO 10253 Acute algae toxicity 38,7 costatum Registration mg/l Dossier OECD Guideline EC50 > 100 REACh 48 h Daphnia magna Acute crustacea toxicity Registration 202 mg/l Dossier 19766-89-3 Sodium 2-ethylhexanoate LC50 NITE (National OECD Guideline Acute fish toxicity > 100 96 h Oryzias latipes Institute of 203 mg/l Technology a ErC50 72 h Desmodesmus Study report other: Method: Acute algae toxicity 49,3 subspicatus (1988) other[.] German mg/l Industrial **EC50** Study report other: Directive Acute crustacea toxicity 85,4 48 h Daphnia magna 79/831/EEC. (1988) mg/l Annex V, Pa NOEC OECD Guideline Study report Crustacea toxicity 25 mg/l 21 d Daphnia magna (1997) 211 1330-43-4 disodium tetraborate, anhydrous LC50 96 h Limanda limanda REACh other: ASTM Acute fish toxicity 74 mg/l Registration E729-95 Standard Dossier Guide for C ErC50 72 h Phaeodactylum REACh ISO 10253 Acute algae toxicity 66 mg/l Registration tricornutum Dossier

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Acute crustacea toxicity	EC50	165 mg/l	48 h	Ceriodaphnia dubia	Study report (2010)	other: ASTM E729-95 Standard Guide for C
Fish toxicity	NOEC mg/l	11,2	32 d	Pimephales promelas		other: ASTM E1241-05 Standard Guide for
Algae toxicity	NOEC mg/l	17,5		Pseudokirchneriella subcapitata	Study report (2000)	OECD Guideline 201
Crustacea toxicity	NOEC mg/l	16,6	28 d	Americamysis bahia	-	EPA OPPTS 850.1350
Acute bacteria toxicity	(EC50 mg/l)	> 175	3 h	Activated sludge	Study report (2000)	OECD Guideline 209

12.2. Persistence and degradability

Elimination information: > 70 % DOC reduction (28 d) (OECD 301 A (new version)) Readily biodegradable.

12.3. Bioaccumulative potential

Does not accumulate in organisms.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
107-21-1	Ethane-1,2-diol	-1,36
17265-14-4	Disodium sebacate	-4,9
19766-89-3	Sodium 2-ethylhexanoate	1,3
1330-43-4	disodium tetraborate, anhydrous	-1,53

BCF

CAS No	Chemical name	BCF	Species	Source
1330-43-4	disodium tetraborate, anhydrous	0,7 - 1,4	Crassostrea gigas	REACh Registration D

12.4. Mobility in soil

Adsorption to solid soil phase is not expected.

12.5. Results of PBT and vPvB assessment

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

The product has not been tested.

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

No information available.

Further information

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





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Contaminated packaging

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

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number: No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation. 14.2. UN proper shipping name: 14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation. 14.4. Packing group: Inland waterways transport (ADN) 14.1. UN number: No dangerous good in sense of this transport regulation. 14.2. UN proper shipping name: No dangerous good in sense of this transport regulation. 14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation. 14.4. Packing group: No dangerous good in sense of this transport regulation. Marine transport (IMDG) 14.1. UN number: No dangerous good in sense of this transport regulation. 14.2. UN proper shipping name: No dangerous good in sense of this transport regulation. 14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation. 14.4. Packing group: No dangerous good in sense of this transport regulation. Air transport (ICAO-TI/IATA-DGR) 14.1. UN number: No dangerous good in sense of this transport regulation. 14.2. UN proper shipping name: No dangerous good in sense of this transport regulation. 14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation. 14.4. Packing group: No dangerous good in sense of this transport regulation. 14.5. Environmental hazards ENVIRONMENTALLY HAZARDOUS: No 14.6. Special precautions for user No dangerous good in sense of this transport regulation.

14.7. Maritime transport in bulk according to IMO instruments

No dangerous good in sense of this transport regulation.

SECTION 15: Regulatory information

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

EU regulatory information

Authorisations (REACH, annex XIV): Substances of very high concern, SVHC (REACH, article 59): disodium tetraborate, anhydrous

 Restrictions on use (REACH, annex XVII): Entry 3, Entry 30, Entry 75

 2010/75/EU (VOC):
 93,47 % (1048,733 g/l)

 2004/42/EC (VOC):
 96,46 % (1082,281 g/l)
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Information according to 2012/18/EU (SEVESO III):	Not subject to 2012/18/EU (SEVESO III)			
National regulatory information				
Employment restrictions:	Observe restrictions to employment for juveniles according to the 'ju work protection guideline' (94/33/EC). Observe employment restricti under the Maternity Protection Directive (92/85/EEC) for expectant of nursing mothers.	ons		
Water hazard class (D):	1 - slightly hazardous to water			
15.2. Chemical safety assessment				
Chemical safety assessments for subs	stances in this mixture were not carried out.			
SECTION 16: Other information				
Changes				
This data sheet contains changes from	n the previous version in section(s): 2,3,4,5,6,7,8,9,10,11,12,13,15,16.			
Abbreviations and acronyms				
ADR: Accord européen sur le transpor	rt 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 Asso	ciation			
	Classification and Labelling of Chemicals			
EINECS: European Inventory of Existin	-			
ELINCS: European List of Notified Che	emical Substances			
CAS: Chemical Abstracts Service				
LC50: Lethal concentration, 50%				
LD50: Lethal dose, 50%				
CLP: Classification, labelling and Pack				
REACH: Registration, Evaluation and				
	Classification, Labelling and Packaging of Chemicals			
UN: United Nations				
DNEL: Derived No Effect Level				
DMEL: Derived Minimal Effect Level	Alona (
PNEC: Predicted No Effect Concentral	แอก			
ATE: Acute toxicity estimate				
LL50: Lethal loading, 50%				
EL50: Effect loading, 50% EC50: Effective Concentration 50%				
ErC50: Effective Concentration 50%, g	arowth rate			
NOEC: No Observed Effect Concentra	-			
BCF: Bio-concentration factor				
PBT: persistent, bioaccumulative, toxic	c.			
vPvB: very persistent, very bioaccumu				
	national 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)	5			
EmS: Emergency Schedules				
Energency concours				
MFAG: Medical First Aid Guide				
	anization			





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IBC: Intermediate Bulk Container VOC: Volatile Organic Compounds

SVHC: Substance of Very High Concern

For abbreviations and acronyms, see table at http://abbrev.esdscom.eu

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

Classification for mixtures and used evaluation method according to GB CLP Regulation

Classification	Classification procedure
Acute Tox. 4; H302	Calculation method
Repr. 1B; H360FD	Calculation method
STOT RE 2; H373	Calculation method

Relevant H and EUH statements (number and full text)

H302	Harmful if swallowed.
H319	Causes serious eye irritation.
H360FD	May damage fertility. May damage the unborn child.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.

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 receiver of our product is singularly responsible for adhering to existing laws and regulations.

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