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

### 1.1. Product identifier

Product form : Mixture  
Trade name/designation : FLEETCOOL OAT Concentrate  
Product code : CC36137 M (5L); CC36138 M (20L); CC36139 M (208L); CC36140 M (1000L); CC36141 M (Bulk)  
Product group : Trade product  
Document no. : LT36253

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

#### 1.2.1. Relevant identified uses

Main use category : Professional use  
Use of the substance/mixture : Coolant

#### 1.2.2. Uses advised against

No data available

### 1.3. Details of the supplier of the safety data sheet

Cummins Filtration  
Unit 3 / Valley Drive / Valley Park / Rugby  
CV21 1 TN Warwickshire - The United Kingdom  
T +44 (0)1788 853600

Cummins Filtration  
Zone Industrielle du Grand Guelen  
29556 Quimper Cedex 9 - France  
T  
+33 (0) 2 98 76 49 49

Cummins Filtration  
Catenbergstraat 1  
2840 Rumst - Belgium  
T +32 3 456 3000  
[productinfosds@cummins.com](mailto:productinfosds@cummins.com)

National representative :

### 1.4. Emergency telephone number

Emergency number : +44 (0) 1235 239670 (Carechem24)  
Only available during office hours.

Country	Official advisory body	Address	Emergency number
Ireland	National Poisons Information Centre Beaumont Hospital	Beaumont Hospital Beaumont Road 9 Dublin	+353 1 809 21 66 (public, 8am - 10pm, 7/7) +353 01 809 2566 (Professionals, 24/7)
United Kingdom	National Poisons Information Service (Newcastle Centre) Regional Drugs and Therapeutics Centre, Wolfson Unit	Claremont Place Newcastle-upon-Tyne NE1 4LP Newcastle	0844 892 0111 (UK only, 24/7, healthcare professionals only)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

**Classification according to Regulation (EC) No. 1272/2008 [CLP]  
(EU) 2015/830 (REACH Annex II)**

Acute Tox. 4 (Oral) H302

STOT RE 2 H373

Full text of H statements : see section 16

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## 2.2. Label elements

### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS07

GHS08

Signal word :

Warning

Hazardous ingredients :

ethanediol; ethylene glycol

Hazard statements (CLP) :

H302 - Harmful if swallowed.  
H373 - May cause damage to organs (kidneys) through prolonged or repeated exposure (oral).

Precautionary statements (CLP) :

P264 - Wash hands, forearms and face thoroughly after handling.  
P270 - Do not eat, drink or smoke when using this product.  
P301+P312 - IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.  
P314 - Get medical advice/attention if you feel unwell.  
P330 - Rinse mouth.  
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

## 2.3. Other hazards

Other hazards :

PBT/vPvB data : This information is not available.

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Substance name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
ethanediol; ethylene glycol	(CAS-No.) 107-21-1 (EC-No.) 203-473-3 (EC Index) 603-027-00-1	90 - 100	Acute Tox. 4 (Oral), H302 STOT RE 2, H373
dipotassium adipate	(CAS-No.) 19147-16-1 (EC-No.) 242-838-1 (EC Index) -	< 5	Eye Irrit. 2, H319
Sodium nitrate	(CAS-No.) 7631-99-4 (EC-No.) 231-554-3	< 0,5	Ox. Sol. 2, H272 Eye Irrit. 2, H319
Sodium molybdate	(CAS-No.) 7631-95-0 (EC-No.) 231-551-7 (EC Index) -	< 0,5	Not classified
1H-Benzotriazole	(CAS-No.) 95-14-7 (EC-No.) 202-394-1 (EC Index) -	< 0,5	Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319 Aquatic Chronic 2, H411
disodium metasilicate	(CAS-No.) 6834-92-0 (EC-No.) 229-912-9 (EC Index) 014-010-00-8	< 0,5	Met. Corr. 1, H290 Skin Corr. 1B, H314 STOT SE 3, H335

Full text of H-statements: see section 16

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## SECTION 4: First aid measures

### 4.1. Description of first aid measures

Additional advice	: First aider: Pay attention to self-protection. See also section 8 . Never give anything by mouth to an unconscious person. Show this safety data sheet to the doctor in attendance. Treat symptomatically. In case of doubt or persistent symptoms, consult always a physician.
Inhalation	: Keep at rest. Provide fresh air. In case of doubt or persistent symptoms, consult always a physician.
Skin contact	: Wash with plenty of water/. Take off immediately all contaminated clothing. Wash contaminated clothing before reuse. In case of doubt or persistent symptoms, consult always a physician.
Eyes contact	: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. In case of doubt or persistent symptoms, consult always a physician.
Ingestion	: Call a physician immediately. Rinse mouth out with water. Drink 1 or 2 glasses of water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person.

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

Inhalation	: May cause respiratory irritation. Dizziness. The following symptoms may occur: Cough. Headache.
Skin contact	: mild skin irritation . Components of the product may be absorbed into the body through the skin.
Eyes contact	: May cause eye irritation with susceptible persons. The following symptoms may occur: erythema (redness). Pain .
Ingestion	: Harmful if swallowed. Weakness. Ingestion of larger amounts may cause defects to the central nervous system (e.g. dizziness, headache). Kidney injury may occur. The absorption of this product into the body may lead to the formation of methaemoglobine that, in sufficient concentration, causes cyanosis. The following symptoms may occur: Vomiting. Unconsciousness. Nausea . Abdominal pain.
Chronic symptoms	: May cause damage to organs (kidneys) through prolonged or repeated exposure (oral).

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

No data available

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media	: Water spray, Alcohol resistant foam, Carbon dioxide, Dry extinguishing powder.
Unsuitable extinguishing media	: Strong water jet .

### 5.2. Special hazards arising from the substance or mixture

Specific hazards	: Provide adequate ventilation. Evacuate personnel to a safe area. On heating there is a risk of a build-up of pressure in hermetically sealed containers or tanks. Vapours are heavier than air and may spread along floors. Hazardous decomposition products COx. Formaldehyde . Do not allow run-off from fire-fighting to enter drains or water courses.
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### 5.3. Advice for firefighters

Firefighting instructions	: Special protective equipment for firefighters. . Wear a self-contained breathing apparatus and chemical protective clothing. Use water spray or fog for cooling exposed containers.
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## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

For non-emergency personnel : Stay upwind/keep distance from source. Provide adequate ventilation. Use personal protective equipment as required. Concerning personal protective equipment to use, see section 8. Do not eat, drink or smoke in areas where product is used. Do not breathe vapour/aerosol. Avoid contact with skin, eyes and clothing. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not ingest.

#### 6.1.2. For emergency responders

For emergency responders : Ensure procedures and training for emergency decontamination and disposal are in place.

### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Provide adequate ventilation. Stop leak if safe to do so. Dilute with plenty of water. Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13). Site should have a spill plan to ensure that adequate safeguards are in place to minimize the impact of episodic releases.

### 6.4. Reference to other sections

Concerning personal protective equipment to use, see section 8 . Concerning disposal elimination after cleaning, see section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Use only in well ventilated areas. Use personal protective equipment as required. Concerning personal protective equipment to use, see section 8 . Do not ingest. Do not breathe vapour/aerosol. Avoid contact with skin, eyes and clothing. After use replace the closing cap immediately. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take any precaution to avoid mixing with combustibles...

Hygiene measures

: Keep good industrial hygiene. Wash hands and face before breaks and immediately after handling of the product. Keep away from food, drink and animal feedingstuffs. When using do not eat, drink or smoke. Separate working clothes from town clothes. Take off contaminated clothing.

### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures

: Keep container tightly closed in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Refer to the detailed list of incompatible materials in section 10 Stability/Reactivity. Keep locked-up.

### 7.3. Specific end use(s)

No data available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

ethanediol; ethylene glycol (107-21-1)		
EU	IOELV TWA (mg/m <sup>3</sup> )	52 mg/m <sup>3</sup>
EU	IOELV TWA (ppm)	20 ppm
EU	IOELV STEL (mg/m <sup>3</sup> )	104 mg/m <sup>3</sup>
EU	IOELV STEL (ppm)	40 ppm
EU	Notes	Possibility of significant uptake through the skin

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ethanediol; ethylene glycol (107-21-1)		
Austria	MAK (mg/m <sup>3</sup> )	26 mg/m <sup>3</sup>
Austria	MAK (ppm)	10 ppm
Austria	MAK Short time value (mg/m <sup>3</sup> )	52 mg/m <sup>3</sup>
Austria	MAK Short time value (ppm)	20 ppm
Bulgaria	OEL TWA (mg/m <sup>3</sup> )	52 mg/m <sup>3</sup>
Bulgaria	OEL TWA (ppm)	20 ppm
Bulgaria	OEL STEL (mg/m <sup>3</sup> )	104 mg/m <sup>3</sup>
Bulgaria	OEL STEL (ppm)	40 ppm
Croatia	GVI (granična vrijednost izloženosti) (mg/m <sup>3</sup> )	52 mg/m <sup>3</sup>
Croatia	GVI (granična vrijednost izloženosti) (ppm)	20 ppm
Croatia	KGVI (kratkotrajna granična vrijednost izloženosti) (mg/m <sup>3</sup> )	104 mg/m <sup>3</sup>
Croatia	KGVI (kratkotrajna granična vrijednost izloženosti) (ppm)	40 ppm
Cyprus	OEL TWA (mg/m <sup>3</sup> )	52 mg/m <sup>3</sup>
Cyprus	OEL TWA (ppm)	20 ppm
Cyprus	OEL STEL (mg/m <sup>3</sup> )	104 mg/m <sup>3</sup>
Cyprus	OEL STEL (ppm)	40 ppm
Czech Republic	Expoziční limity (PEL) (mg/m <sup>3</sup> )	50 mg/m <sup>3</sup>
Denmark	Grænseværdie (langvarig) (mg/m <sup>3</sup> )	26 mg/m <sup>3</sup> 10 mg/m <sup>3</sup> (atomized)
Denmark	Grænseværdie (langvarig) (ppm)	10 ppm
Estonia	OEL TWA (mg/m <sup>3</sup> )	52 mg/m <sup>3</sup> (total concentration of aerosol and vapor)
Estonia	OEL TWA (ppm)	20 ppm (total concentration of aerosol and vapor)
Estonia	OEL STEL (mg/m <sup>3</sup> )	104 mg/m <sup>3</sup> (total concentration of aerosol and vapor)
Estonia	OEL STEL (ppm)	40 ppm (total concentration of aerosol and vapor)
Finland	HTP-arvo (8h) (mg/m <sup>3</sup> )	50 mg/m <sup>3</sup>
Finland	HTP-arvo (8h) (ppm)	20 ppm
Finland	HTP-arvo (15 min)	100 mg/m <sup>3</sup>
Finland	HTP-arvo (15 min) (ppm)	40 ppm
France	VME (mg/m <sup>3</sup> )	52 mg/m <sup>3</sup> (indicative limit-vapor)
France	VME (ppm)	20 ppm (indicative limit-vapor)
France	VLE (mg/m <sup>3</sup> )	104 mg/m <sup>3</sup> (indicative limit-vapor)
France	VLE (ppm)	40 ppm (indicative limit-vapor)
Germany	TRGS 900 Occupational exposure limit value (mg/m <sup>3</sup> )	26 mg/m <sup>3</sup> (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Germany	TRGS 900 Occupational exposure limit value (ppm)	10 ppm (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Gibraltar	8h mg/m <sup>3</sup>	52 mg/m <sup>3</sup>
Gibraltar	8h ppm	20 ppm
Gibraltar	Short-term mg/m <sup>3</sup>	104 mg/m <sup>3</sup>
Gibraltar	Short-term ppm	40 ppm
Greece	OEL TWA (mg/m <sup>3</sup> )	125 mg/m <sup>3</sup> (vapor)

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ethanediol; ethylene glycol (107-21-1)		
Greece	OEL TWA (ppm)	50 ppm (vapor)
Greece	OEL STEL (mg/m <sup>3</sup> )	125 mg/m <sup>3</sup> (vapor)
Greece	OEL STEL (ppm)	50 ppm (vapor)
Hungary	AK-érték	52 mg/m <sup>3</sup>
Hungary	CK-érték	104 mg/m <sup>3</sup>
Ireland	OEL (8 hours ref) (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (particulate) 52 mg/m <sup>3</sup> (vapour)
Ireland	OEL (8 hours ref) (ppm)	20 ppm (vapour)
Ireland	OEL (15 min ref) (mg/m <sup>3</sup> )	30 mg/m <sup>3</sup> (calculated-particulate) 104 mg/m <sup>3</sup> (vapour)
Ireland	OEL (15 min ref) (ppm)	40 ppm (vapour)
Italy	OEL TWA (mg/m <sup>3</sup> )	52 mg/m <sup>3</sup>
Italy	OEL TWA (ppm)	20 ppm
Italy	OEL STEL (mg/m <sup>3</sup> )	104 mg/m <sup>3</sup>
Italy	OEL STEL (ppm)	40 ppm
Latvia	OEL TWA (mg/m <sup>3</sup> )	52 mg/m <sup>3</sup>
Latvia	OEL TWA (ppm)	20 ppm
Lithuania	IPRV (mg/m <sup>3</sup> )	25 mg/m <sup>3</sup> (aerosol and vapor)
Lithuania	IPRV (ppm)	10 ppm (aerosol and vapor)
Lithuania	TPRV (mg/m <sup>3</sup> )	50 mg/m <sup>3</sup> (aerosol and vapor)
Lithuania	TPRV (ppm)	20 ppm (aerosol and vapor)
Luxembourg	OEL TWA (mg/m <sup>3</sup> )	52 mg/m <sup>3</sup>
Luxembourg	OEL TWA (ppm)	20 ppm
Luxembourg	OEL STEL (mg/m <sup>3</sup> )	104 mg/m <sup>3</sup>
Luxembourg	OEL STEL (ppm)	40 ppm
Malta	OEL TWA (mg/m <sup>3</sup> )	52 mg/m <sup>3</sup>
Malta	OEL TWA (ppm)	20 ppm
Malta	OEL STEL (mg/m <sup>3</sup> )	104 mg/m <sup>3</sup>
Malta	OEL STEL (ppm)	40 ppm
Netherlands	Grenswaarde TGG 8H (mg/m <sup>3</sup> )	52 mg/m <sup>3</sup> (fume) 10 mg/m <sup>3</sup> (droplets)
Netherlands	Grenswaarde TGG 15MIN (mg/m <sup>3</sup> )	104 mg/m <sup>3</sup>
Poland	NDS (mg/m <sup>3</sup> )	15 mg/m <sup>3</sup>
Poland	NDSch (mg/m <sup>3</sup> )	50 mg/m <sup>3</sup>
Portugal	OEL TWA (mg/m <sup>3</sup> )	52 mg/m <sup>3</sup> (indicative limit value)
Portugal	OEL TWA (ppm)	20 ppm (indicative limit value)
Portugal	OEL STEL (mg/m <sup>3</sup> )	104 mg/m <sup>3</sup> (indicative limit value)
Portugal	OEL STEL (ppm)	40 ppm (indicative limit value)
Portugal	OEL - Ceilings (mg/m <sup>3</sup> )	100 mg/m <sup>3</sup> (aerosol only)
Romania	OEL TWA (mg/m <sup>3</sup> )	52 mg/m <sup>3</sup>
Romania	OEL TWA (ppm)	20 ppm
Romania	OEL STEL (mg/m <sup>3</sup> )	104 mg/m <sup>3</sup>
Romania	OEL STEL (ppm)	40 ppm
Slovakia	NPHV (priemerná) (mg/m <sup>3</sup> )	52 mg/m <sup>3</sup>

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ethanediol; ethylene glycol (107-21-1)		
Slovakia	NPHV (priemerná) (ppm)	20 ppm
Slovakia	NPHV (Hraničná) (mg/m <sup>3</sup> )	104 mg/m <sup>3</sup>
Slovenia	OEL TWA (mg/m <sup>3</sup> )	52 mg/m <sup>3</sup>
Slovenia	OEL TWA (ppm)	20 ppm
Slovenia	OEL STEL (mg/m <sup>3</sup> )	104 mg/m <sup>3</sup>
Slovenia	OEL STEL (ppm)	40 ppm
Spain	VLA-ED (mg/m <sup>3</sup> )	52 mg/m <sup>3</sup> (indicative limit value)
Spain	VLA-ED (ppm)	20 ppm (indicative limit value)
Spain	VLA-EC (mg/m <sup>3</sup> )	104 mg/m <sup>3</sup>
Spain	VLA-EC (ppm)	40 ppm
Sweden	nivågränsvärde (NVG) (mg/m <sup>3</sup> )	25 mg/m <sup>3</sup> (limit value applies to the combined concentration of vapor and aerosol-aerosol and vapor)
Sweden	nivågränsvärde (NVG) (ppm)	10 ppm (limit value applies to the combined concentration of vapor and aerosol-aerosol and vapor)
Sweden	kortidsvärde (KTV) (mg/m <sup>3</sup> )	104 mg/m <sup>3</sup> (limit value applies to the combined concentration of vapor and aerosol-aerosol and vapor)
Sweden	kortidsvärde (KTV) (ppm)	40 ppm (limit value applies to the combined concentration of vapor and aerosol-aerosol and vapor)
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (particulates) 52 mg/m <sup>3</sup> (vapour)
United Kingdom	WEL TWA (ppm)	20 ppm (vapour)
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	104 mg/m <sup>3</sup> (vapour) 30 mg/m <sup>3</sup> (calculated-particulate)
United Kingdom	WEL STEL (ppm)	40 ppm (vapour)
Norway	Grenseverdier (AN) (mg/m <sup>3</sup> )	52 mg/m <sup>3</sup> (total sum of gas and particulate matter (aerosol) of the substance-total dust and vapor)
Norway	Grenseverdier (AN) (ppm)	20 ppm (total sum of gas and particulate matter (aerosol) of the substance-total dust and vapor)
Norway	Grenseverdier (Kortidsverdi) (mg/m <sup>3</sup> )	104 mg/m <sup>3</sup> (total sum of gas and particulate matter (aerosol) of the substance-dust)
Norway	Grenseverdier (Kortidsverdi) (ppm)	40 ppm (total sum of gas and particulate matter (aerosol) of the substance)
Switzerland	MAK (mg/m <sup>3</sup> )	26 mg/m <sup>3</sup>
Switzerland	MAK (ppm)	10 ppm
Switzerland	KZGW (mg/m <sup>3</sup> )	52 mg/m <sup>3</sup>
Switzerland	KZGW (ppm)	20 ppm
Australia	TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (particulate) 52 mg/m <sup>3</sup> (vapour)
Australia	TWA (ppm)	20 ppm (vapour)
Australia	STEL (mg/m <sup>3</sup> )	104 mg/m <sup>3</sup> (vapour)
Australia	STEL (ppm)	40 ppm (vapour)
Canada (Quebec)	PLAFOND (mg/m <sup>3</sup> )	127 mg/m <sup>3</sup> (mist and vapour)
Canada (Quebec)	PLAFOND (ppm)	50 ppm (mist and vapour)
USA - ACGIH	ACGIH TWA (ppm)	25 ppm (vapor fraction)

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<b>ethanediol; ethylene glycol (107-21-1)</b>		
USA - ACGIH	ACGIH STEL (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (inhalable particulate matter, aerosol only)
USA - ACGIH	ACGIH STEL (ppm)	50 ppm (vapor fraction)
<b>1H-Benzotriazole (95-14-7)</b>		
Latvia	OEL TWA (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>

## 8.2. Exposure controls

Engineering measure(s)	: Provide adequate ventilation. Use only in area provided with appropriate exhaust ventilation. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Organisational measures to prevent /limit releases, dispersion and exposure. See also section 7.
Personal protective equipment	: Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Hand protection	: Protective gloves complying with EN 374. The selection of specific gloves for a specific application and time of use in a working area, should also take into account other factors on the working space, such as (but not limited to): other chemicals that are possibly used, physical requirements (protection against cutting/drilling, skill, thermal protection), and the instructions/specification of the supplier of gloves.
Eye protection	: tightly fitting safety goggles /. Safety glasses (EN166)
Respiratory protection	: Not required for normal conditions of use. In case of insufficient ventilation, wear suitable respiratory equipment. Full face mask (EN 136) (EN 136). Half-face mask (DIN EN 140) (EN 140). Filter type: A (EN 141). Self-contained breathing apparatus (EN 133) .

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: clear.
Colour	: Violet.
Odour	: Characteristic.
Odour threshold	: No data available
pH	: 8,0 - 9 @ 100%
Relative evaporation rate (butylacetate=1)	: No data available
Melting / freezing point	: No data available
Freezing point	: No data available
Initial boiling point and boiling range	: 195 °C
Flash point	: 111 °C Open cup
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable,(Liquid)
Vapour pressure	: No data available
Vapour density	: No data available
Relative density	: No data available
Solubility	: No data available
Partition coefficient n-octanol/water	: No data available
Kinematic viscosity	: No data available
Dynamic viscosity	: No data available
Explosive properties	: Not applicable.

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Oxidising properties : Not applicable.  
Explosive limits : No data available

**9.2. Other information**

VOC content : None

**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

Reference to other sections: 10.5.

**10.2. Chemical stability**

The product is stable under storage at normal ambient temperatures.

**10.3. Possibility of hazardous reactions**

Hazardous polymerisation does not occur.

**10.4. Conditions to avoid**

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. See also section 7 : Handling and storage .

**10.5. Incompatible materials**

oxidising substances. acids and bases . See also section 7 : Handling and storage .

**10.6. Hazardous decomposition products**

Burning produces noxious and toxic fumes. Hazardous decomposition products. Carbon oxides. Formaldehyde .

**SECTION 11: Toxicological information**

**11.1. Information on toxicological effects**

Acute toxicity : Oral: Harmful if swallowed.

ATE CLP (oral)	552,914 mg/kg bodyweight
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**ethanediol; ethylene glycol (107-21-1)**

LD50/oral/rat	4700 mg/kg
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LD50/dermal/rat	10600 mg/kg
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**Sodium nitrate (7631-99-4)**

LD50/oral/rat	> 2000 mg/kg
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**Sodium molybdate (7631-95-0)**

LD50/oral/rat	4000 mg/kg
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LC50/inhalation/4h/rat	> 5,1 mg/l/4h (Exposure time: 4 h)
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**1H-Benzotriazole (95-14-7)**

LD50/oral/rat	560 mg/kg
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LD50/dermal/rabbit	> 10000 mg/kg
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LC50/inhalation/4h/rat	1910 mg/m <sup>3</sup> (Exposure time: 3 h)
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Skin corrosion/irritation : Not classified (Based on available data, the classification criteria are not met.)  
pH: 8,0 - 9 @ 100%

Serious eye damage/irritation : Not classified (Based on available data, the classification criteria are not met.)  
pH: 8,0 - 9 @ 100%

Respiratory or skin sensitisation : Not classified (Based on available data, the classification criteria are not met.)

Germ cell mutagenicity : Not classified (Based on available data, the classification criteria are not met.)

Carcinogenicity : Not classified (Based on available data, the classification criteria are not met.)

Reproductive toxicity : Not classified (Based on available data, the classification criteria are not met.)

STOT-single exposure : Not classified (Based on available data, the classification criteria are not met.)

STOT-repeated exposure : May cause damage to organs (kidneys) through prolonged or repeated exposure (oral).

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Aspiration hazard : Not classified (Based on available data, the classification criteria are not met.)

## SECTION 12: Ecological information

### 12.1. Toxicity

Environmental properties : Not classified.

<b>disodium metasilicate (6834-92-0)</b>	
LC50 fish 1	210 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [semi-static])
LC50 fish 2	210 mg/l (Exposure time: 96 h - Species: Brachydanio rerio)
<b>ethanediol; ethylene glycol (107-21-1)</b>	
LC50 fish 1	41000 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)
EC50 Daphnia 1	46300 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 fish 2	14 - 18 ml/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])
<b>Sodium nitrate (7631-99-4)</b>	
LC50 fish 1	2000 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
LC50 fish 2	994,4 - 1107 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])
<b>1H-Benzotriazole (95-14-7)</b>	
LC50 fish 1	39 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)
EC50 Daphnia 1	141,6 mg/l (Exposure time: 48 h - Species: water flea)

### 12.2. Persistence and degradability

<b>FLEETCOOL OAT Concentrate</b>	
Persistence and degradability	The product itself has not been tested.

### 12.3. Bioaccumulative potential

<b>FLEETCOOL OAT Concentrate</b>	
Partition coefficient n-octanol/water	No data available
<b>ethanediol; ethylene glycol (107-21-1)</b>	
Partition coefficient n-octanol/water	-1,93
<b>Sodium nitrate (7631-99-4)</b>	
Partition coefficient n-octanol/water	-3,8 (at 25 °C)

### 12.4. Mobility in soil

<b>FLEETCOOL OAT Concentrate</b>	
Ecology - soil	The product itself has not been tested.

### 12.5. Results of PBT and vPvB assessment

No data available

### 12.6. Other adverse effects

Additional information : No information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Product/Packaging disposal recommendations : Refer to manufacturer/supplier for information on recovery/recycling. Collect and dispose of waste product at an authorised disposal facility. Dispose of contaminated materials in accordance with current regulations.

Additional information : Delivery to an approved waste disposal company. In accordance with local and national regulations.

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European waste catalogue (2001/573/EC, 75/442/EEC, 91/689/EEC) : The following Waste Codes are only suggestions:  
 07 02 04\* - other organic solvents, washing liquids and mother liquors /  
 150110 - packaging containing residues of or contaminated by dangerous substances .  
 Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

### SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID
<b>14.1. UN number</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.2. UN proper shipping name</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.3. Transport hazard class(es)</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.4. Packing group</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.5. Environmental hazards</b>				
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No	Dangerous for the environment : No	Dangerous for the environment : No

No supplementary information available

#### 14.6. Special precautions for user

**- Overland transport**

No data available

**- Transport by sea**

No data available

**- Air transport**

No data available

**- Inland waterway transport**

No data available

**- Rail transport**

No data available

#### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

### SECTION 15: Regulatory information

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

##### 15.1.1. EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

40. Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not.	1H-Benzotriazole
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3(b) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10	FLEETCOOL OAT Concentrate - ethanediol; ethylene glycol
3. Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008	FLEETCOOL OAT Concentrate - ethanediol; ethylene glycol

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

VOC content : None

### 15.1.2. National regulations

#### Germany

Reference to AwSV : Water hazard class (WGK) 1, low hazard to water (Classification according to AwSV, Annex 1)

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

TA Luft : 5.2.5 Organic Substances

#### Netherlands

Waterbezwaarlijkheid : B (5) - Weinig schadelijk voor in het water levende organismen

SZW-lijst van kankerverwekkende stoffen : None of the components are listed

SZW-lijst van mutagene stoffen : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : None of the components are listed

#### Denmark

Recommendations Danish Regulation : Young people below the age of 18 years are not allowed to use the product  
Pregnant/breastfeeding women working with the product must not be in direct contact with the product

### 15.2. Chemical safety assessment

Not required

## SECTION 16: Other information

Indication of changes:

15	Waterbezwaarlijkheid	Modified	
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Abbreviations and acronyms:

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	ADN = Accord Européen relatif au Transport International des Marchandises Dangereuses par voie de Navigation du Rhin ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route CLP = Classification, Labelling and Packaging Regulation according to 1272/2008/EC IATA = International Air Transport Association IMDG = International Maritime Dangerous Goods Code LEL = Lower Explosive Limit/Lower Explosion Limit UEL = Upper Explosion Limit/Upper Explosive Limit REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
	CSR = CSR = Chemical Safety Report
	EC50 = Median Effective Concentration
	LD50 = Median lethal dose
	LC50 = Median lethal concentration
	N.O.S. = Not Otherwise Specified
	DNEL = DNEL = Derived No Effect Level
	PNEC = Predicted No Effect Concentration
	TLV = Threshold limits
	TWA = time weighted average
	STEL = Short term exposure limit
	persistent, bioaccumulating and toxic (PBT).
	vPvB = very persistent and very bioaccumulating
	WGK = Wassergefährdungsklasse (Water Hazard Class under German Federal Water Management Act)

Sources of key data used to compile the datasheet : ECHA (European Chemicals Agency). European Chemicals Bureau Supplier data, 05/27/2012.

Training advice : Manipulations are to be done only by qualified and authorised persons. Normal use of this product shall imply use in accordance with the instructions on the packaging. Training staff on good practice.

Full text of H- and EUH-statements:

Acute Tox. 4 (Oral)	Acute toxicity Category 4
Aquatic Chronic 2	Hazardous to the aquatic environment - chronic hazard category 2
Eye Irrit. 2	Serious eye damage/eye irritation Category 2
Met. Corr. 1	Corrosive to metals, Category 1
Ox. Sol. 2	Oxidizing solid Category 2
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H272	May intensify fire; oxidiser.
H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.

According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830  
Classification according to Regulation (EC) No. 1272/2008 [CLP]  
Labelling according to Regulation (EC) No. 1272/2008 [CLP]

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