

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

1.1. Product identifier

Product form: Mixture

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
Industrial/Professional use spec.: Industrial.
Use of the substance/mixture: For cooling surfaces, such as roofs, external walls, tank, container etc.

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

NCK Gulf DWC-LLC
Dubai Silicon HQ
PO BOX 341190
Dubai, UAE
T 00971-(0)4 3724692 / F 00971-(0)4 3724693
mathew.alex@adgreencoatgulf.com

Country	Official advisory body	Address	Emergency number
UNITED KINGDOM	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER London	0870 243 2241

SECTION 2 Hazards identification

2.1. Classification of the substance or mixture

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

Aquatic Acute I H400
Aquatic Chronic I H410
Full text of H-phrases: see section 16

Classification according to Directive 67/548/EEC or 1999/45/EC

N; R50/53
Full text of R-phrases: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available



2.2. Label elements

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

Hazard pictograms (CLP):



GHS09

Signal word (CLP):

Warning

Hazard statements (CLP):

H410 - Very toxic to aquatic life with long lasting effects

Precautionary statements (CLP):

P273 - Avoid release to the environment

P391 - Collect spillage

P501 - Dispose of contents/container to to an authorized waste treatment plant

EUH phrases:

EUH208 - Contains zirconium(IV)oxide (1314-23-4). May produce an allergic reaction

2.3. Other hazards

No additional information available

SECTION 3 Composition/information on ingredients

3.1. Substances

Not applicable

3.1. Mixture

Name	Name Product identifier	%	Classification according to Directive 67/548/EEC
titanium(IV) oxide substance with national workplace exposure limit(s) (GB)	(CAS No.) 13463-67-7 (EC no) 236-675-5	10 - 25	Not classified
iron(III) oxide substance with national workplace exposure limit(s) (GB)	CAS No.) 1309-37-1 (EC no) 215-168-2	2,5 - 10	Not classified
ethylene glycol	(CAS No.) 107-21-1 (EC no) 203-473-3 (EC index no) 603-027-00-1	1 - 2,5	Xn; R22
tin dioxide substance with a Community workplace exposure limit substance with national workplace exposure limit(s) (GB)	(CAS No.) 18282-10-5 (EC no) 242-159-0	< 1	Not classified
diuron	(CAS No.) 330-54-1 (EC no) 206-354-4 (EC index no) 006-015-00-9	< 1	Carc. Cat. 3; R40 Xn; R22 Xn; R48/22 N; R50/53
ethanol substance with national workplace exposure limit(s) (GB)	(CAS No.) 64-17-5 (EC no) 200-578-6 (EC index no) 603-002-00-5	< 1	F; R11
2-propanol	(CAS No.) 67-63-0 (EC no) 200-661-7 (EC index no) 200-661-7	< 1	F; R11 Xi; R36 R67
zirconium(IV)oxide	(CAS No.) 1314-23-4 (EC no) 215-227-2	< 1	Xn; R42 Xi; R43
2-butoxyethanol	CAS No.) 111-76-2 (EC no) 203-905-0 (EC index no) 603-014-00-0	< 1	Xn; R20/21/22 Xi; R36/38
silica,precipitated substance with national workplace exposure limit(s) (GB)	(CAS No.) 112926-00-8	< 1	Not classified

Name	Name Product identifier	Specific concentration limits
diuron	(CAS No.) 330-54-1 (EC no) 206-354-4 (EC index no) 006-015-00-9	(0,25 =< C) N;R50/53 (0,025 =< C < 0,25) N;R51/53 (0,0025 =< C < 0,025) R52/53



Name	Name Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
titanium(IV) oxide substance with national workplace exposure limit(s) (GB)	CAS No.) 13463-67-7 (EC no) 236-675-5	10 - 25	Not classified
iron(III) oxide substance with national workplace exposure limit(s) (GB)	(CAS No.) 1309-37-1 (EC no) 215-168-2	2,5 - 10	Not classified
ethylene glycol	(CAS No.) 107-21-1 (EC no) 203-473-3 (EC index no) 603-027-00-1	1 - 2,5	Acute Tox. 4 (Oral), H302
tin dioxide substance with a Community workplace exposure limit substance with national workplace exposure limit(s) (GB)	CAS No.) 18282-10-5 (EC no) 242-159-0	< 1	Not classified
diuron	(CAS No.) 330-54-1 (EC no) 206-354-4 (EC index no) 006-015-00-9	< 1	Carc. 2, H351 Acute Tox. 4 (Oral), H302 STOT RE 2, H373 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=100)
ethanol substance with national workplace exposure limit(s) (GB)	CAS No.) 64-17-5 (EC no) 200-578-6 (EC index no) 603-002-00-5	< 1	Flam. Liq. 2, H225
2-propanol	(CAS No.) 67-63-0 (EC no) 200-661-7 (EC index no) 200-661-7	< 1	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
zirconium(IV)oxide	CAS No.) 1314-23-4 (EC no) 215-227-2	< 1	Resp. Sens. 1, H334 Skin Sens. 1, H317
2-butoxyethanol	CAS No.) 111-76-2 (EC no) 203-905-0 (EC index no) 603-014-00-0	< 1	Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319 Skin Irrit. 2, H315
silica,precipitated substance with national workplace exposure limit(s) (GB)	(CAS No.) 112926-00-8	< 1	Not classified

Full text of R-, H- and EUH-phrases: see section 16

SECTION 4 First aid measures

4.1. Description of first aid measures

First-aid measures general :	Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation:	If necessary seek medical advice. Remove to fresh air and keep at rest in a position comfortable for breathing.
First-aid measures after skin contact:	Take off contaminated clothes, wash skin with plenty of water or have a shower (during minimum 15 minutes) and if necessary take medical advice. Do NOT use solvents or thinners.
First-aid measures after eye contact:	Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Ensure adequate flushing of eyes by separating eyelids with the fingers. Obtain medical attention if pain, blinking or redness persist.
First-aid measures after ingestion :	Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

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

Symptoms/injuries:	Not expected to present a significant hazard under anticipated conditions of normal use.
Symptoms/injuries after skin contact:	Skin irritation. Red skin.
Symptoms/injuries after eye contact :	Irritation. Pain. Watering of the eyes. Redness.

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. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media: Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard: Non combustible.

Reactivity: No dangerous reactions known.

5.3. Advice for firefighters

Firefighting instructions: Use water spray or fog for cooling exposed containers.
Exercise caution when fighting any chemical fire.
Avoid (reject) fire-fighting water to enter environment.

Protection during firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

▶ SECTION 6 Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures: Evacuate personnel to a safe area.

6.1.2. For emergency responders

Protective equipment: Equip cleanup crew with proper protection.

Emergency procedures: Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. If the product enters drains or sewers the local water company should be contacted immediately; in the case of contamination of streams, rivers or lakes, the National Rivers Authority. Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

Other information : Collect in closed containers for disposal. Call in an expert.

6.4. Reference to other sections

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

▶ SECTION 7 Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : Avoid inhalation of vapour and spray mist. Ensure good ventilation of the work station.

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work. Provide good ventilation in process area to prevent formation of vapour. Use only outdoors or in a well-ventilated area. Wear suitable protective clothing.



7.2. Conditions for safe storage, including any incompatibilities

Technical measures :	Use only in well-ventilated areas.
Storage conditions :	Keep only in the original container in a cool, well-ventilated place. Correctly labelled. Keep container closed when not in use.
Incompatible products :	Strong bases. Strong acids.
Incompatible materials :	Remove all sources of ignition. Protect material from direct sunlight.

7.3. Specific end use(s)

For cooling surfaces, such as roofs, external walls, tanks, containers etc.

SECTION 8 Exposure controls/personal protection

8.1. Control parameters

tin dioxide (18282-10-5)		
EU	IOELV TWA (mg/m ³)	2 mg/m ³ (Sn)
United Kingdom	WEL TWA (mg/m ³)	2 mg/m ³ (Sn)
United Kingdom	WEL TWA (ppm)	- (Sn)
United Kingdom	WEL STEL (mg/m ³)	4 mg/m ³ (Sn)
United Kingdom	WEL STEL (ppm)	- (Sn)

diuron (330-54-1)		
United Kingdom	WEL TWA (mg/m ³)	10 mg/m ³

ethanol (64-17-5)		
United Kingdom	WEL TWA (mg/m ³)	1920 mg/m ³
United Kingdom	WEL TWA (ppm)	1000 ppm

titanium(IV) oxide (13463-67-7)		
United Kingdom	WEL TWA (mg/m ³)	4 R/10 l

2-propanol (67-63-0)		
United Kingdom	WEL TWA (mg/m ³)	999 mg/m ³
United Kingdom	WEL TWA (ppm)	400 ppm
United Kingdom	WEL STEL (mg/m ³)	1250 mg/m ³
United Kingdom	WEL STEL (ppm)	500 ppm

zirconium(IV)oxide (1314-23-4)		
United Kingdom	WEL TWA (mg/m ³)	5 mg/m ³ (Zr)
United Kingdom	WEL STEL (mg/m ³)	10 mg/m ³ (Zr)

ethylene glycol (107-21-1)		
EU	IOELV TWA (mg/m ³)	52 mg/m ³
EU	IOELV TWA (ppm)	20 ppm
EU	IOELV STEL (mg/m ³)	104 mg/m ³
EU	IOELV STEL (ppm)	40 ppm
United Kingdom	WEL TWA (mg/m ³)	10 part/52 va
United Kingdom	WEL TWA (ppm)	- part/20 va
United Kingdom	WEL STEL (mg/m ³)	-part/104 va
United Kingdom	WEL STEL (ppm) - part	- part/40 va



2-butoxyethanol (111-76-2)		
EU	IOELV TWA (mg/m ³)	98 mg/m ³
EU	IOELV TWA (ppm)	20 ppm
EU	IOELV STEL (mg/m ³)	246 mg/m ³
EU	IOELV STEL (ppm)	50 ppm
United Kingdom	WEL TWA (ppm)	25 ppm
United Kingdom	WEL STEL (ppm)	50 ppm
iron(III) oxide (1309-37-1)		
United Kingdom	WEL TWA (mg/m ³)	5(Fe) fu
United Kingdom	WEL STEL (mg/m ³)	10(Fe) fu
silica,precipitated (112926-00-8)		
United Kingdom	WEL TWA (mg/m ³)	2.4 R/6 I

8.2. Exposure controls

Appropriate engineering controls:

Components with limit values that require monitoring at the workplace. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Provide local exhaust or general room ventilation to minimize vapour concentrations.

Personal protective equipment:

Avoid all unnecessary exposure. Protective clothing. Insufficient ventilation: wear respiratory protection. Gloves. Safety glasses.



Hand protection :

Chemical resistant gloves (according to European standard NF EN 374 or equivalent). Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation. . Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer. Breakthrough times and swelling characteristics of the material must be taken into consideration. The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed. Since the product consists of several substances, it is possible to estimate the durability of the glove material beforehand and it therefore needs to be tested before use.

Eye protection:

Safety glasses. Use splash goggles when eye contact due to splashing is possible.

Skin and body protection:

Wear suitable protective clothing. CE: EN 340.

Respiratory protection:

Wear approved mask.

Other information:

When using, do not eat, drink or smoke. Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work.



► SECTION 9 Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state :	Liquid
Colour :	various colors.
Odour :	Mild odour. Acrylic.
Odour threshold :	No data available
pH :	8 - 9
Relative evaporation rate (butylacetate=1) :	No data available
Melting point :	No data available
Freezing point :	-20 °C
Boiling point :	No data available
Flash point :	No data available
Self ignition temperature :	No data available
Decomposition temperature :	No data available
Flammability (solid, gas) :	Non flammable.
Vapour pressure :	No data available
Relative vapour density at 20 °C :	No data available
Relative density :	No data available
Density :	1,2 - 1,3
Solubility :	No data available
Log Pow :	No data available
Log Kow :	No data available
Viscosity, kinematic :	6833 mPa.s
Viscosity, dynamic :	No data available
Explosive properties :	No data available
Oxidising properties :	No data available
Explosive limits :	No data available

9.2. Other information

VOC content: 26 g/l

► SECTION 10 Stability and reactivity

10.1. Reactivity

No dangerous reactions known.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known. Hazardous polymerization: None.



10.4. Conditions to avoid

Extremely high or low temperatures. Keep out of direct sunlight.

10.5. Incompatible materials

strong acids. Strong bases.

10.6. Hazardous decomposition products

Fume. Carbon monoxide. Carbon dioxide.

SECTION II Toxicological information

11.1. Information on toxicological effects

Acute toxicity: Not classified

tin dioxide (18282-10-5)	
LD50 oral rat	> 20000 mg/kg (Rat)
diuron (330-54-1)	
LD50 oral rat	1017 mg/kg (Rat)
LD50 dermal rat	> 5000 mg/kg (Rat)
ethanol (64-17-5)	
LD50 oral rat	7060 mg/kg
LD50 dermal rabbit	> 16000 mg/kg
LC50 inhalation rat (mg/l)	> 20 mg/l/4h
ATE oral	7060 mg/kg
titanium(IV) oxide (13463-67-7)	
titanium(IV) oxide (13463-67-7)	> 10000 mg/kg
LD50 dermal rabbit	> 10000 mg/kg
LC50 inhalation rat (mg/l)	6,8 mg/l/4h
2-propanol (67-63-0)	
LD50 oral rat	5045 mg/kg (Rat)
LD50 dermal rabbit	12870 mg/kg (Rabbit)
LC50 inhalation rat (mg/l)	73 mg/l/4h (Rat)
ATE oral	5045 mg/kg
ATE dermal	12870 mg/kg
ethylene glycol (107-21-1)	
LD50 oral rat	> 5000 mg/kg (Rat)
LD50 dermal rabbit	9530 mg/kg (Rabbit)
2-butoxyethanol (111-76-2)	
LD50 oral rat	530 mg/kg (Rat)
ATE oral	530 mg/kg
ATE dermal	1100,00000 mg/kg
iron(III) oxide (1309-37-1)	
LD50 oral rat	> 5000 mg/kg (Rat)
silica,precipitated (112926-00-8)t	
LD50 oral rat	> 5000 mg/kg (Rat)



Skin corrosion/irritation :	Not classified Based on available data, the classification criteria are not met pH: 8 - 9
Serious eye damage/irritation :	Not classified Based on available data, the classification criteria are not met pH: 8 - 9
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
Specific target organ toxicity (single exposure) :	Not classified Based on available data, the classification criteria are not met
Specific target organ toxicity (repeated exposure):	Not classified Based on available data, the classification criteria are not met
Aspiration hazard :	Not classified Based on available data, the classification criteria are not met
Potential Adverse human health effects and symptoms:	Based on available data, the classification criteria are not met

SECTION 12 Ecological information

12.1. Toxicity

Ecology - water: Very toxic to aquatic life.
Very toxic to aquatic life with long lasting effects.

diuron (330-54-1)	
LC50 fishes 1	4,9 - 16 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)
EC50 Daphnia 1	1,4 mg/l (48 h; Daphnia magna)
LC50 fish 2	4 - 8,2 mg/l (96 h; Lepomis macrochirus)
EC50 Daphnia 2	1,4 mg/l (48 h; Daphnia pulex)
Threshold limit other aquatic organisms 1	>= 1 mg/l (504 h; Daphnia magna; REPRODUCTION)
Threshold limit algae 1	0,010 mg/l (72 h; Scenedesmus subspicatus; GROWTH)

ethanol (64-17-5)	
LC50 fishes 1	14200 mg/l (96 Hours; PIMEPHALES PROMELAS)
LC50 other aquatic organisms 1	24000 mg/l (24 Hours; ARTEMIA SALINA)
EC50 Daphnia 1	9300 mg/l (48 Hours; DAPHNIA MAGNA)
EC50 other aquatic organisms 1	33672 mg/l (BACTERIA; INHIBITORY)
LC50 fish 2	13000 mg/l (96 Hours; SALMO GAIRDNERI/ ONCORHYNCHUS MYKISS)
LC50 other aquatic organisms 2	> 250 mg/l (96 Hours; PALAEMONETES SP)
EC50 Daphnia 2	10800 mg/l (24 Hours; DAPHNIA MAGNA; OECD 202)
EC50 other aquatic organisms 2	5000 mg/l (72 Hours; ALGAE)
Threshold limit other aquatic organisms 1	6500 mg/l (16 Hours; PSEUDOMONAS PUTIDA; LOCOMOTOR EFFECT)
Threshold limit other aquatic organisms 2	65 mg/l (72 Hours; PROTOZOA)
Threshold limit algae 1	1450 mg/l (192 Hours; MICROCYSTIS AERUGINOSA; GROWTH RATE)
Threshold limit algae 2	5000 mg/l (168 Hours; SCENEDESMUS QUADRICAUDA; GROWTH RATE)



titanium(IV) oxide (13463-67-7)	
LC50 fishes 1	> 1000 mg/l (96 Hours; PIMEPHALES PROMELAS)
EC50 Daphnia 1	< 1000 mg/l (432 Hours; DAPHNIA MAGNA; STATIC SYSTEM)
LC50 fish 2	> 1 g/l (96 Hours; LEUCISCUS IDUS)
EC50 Daphnia 2	< 500 mg/l (720 Hours; DAPHNIA MAGNA; STATIC SYSTEM)
Threshold limit other aquatic organisms 1	5000 mg/l (PSEUDOMONAS FLUORESCENS)
Threshold limit other aquatic organisms 2	> 3 mg/l (720 Hours; DAPHNIA MAGNA)

2-propanol (67-63-0)	
LC50 fishes 1	4200 mg/l (96 Hours; Rasbora heteromorpha; FLOW-THROUGH SYSTEM)
EC50 Daphnia 1	> 10000 mg/l (48 Hours; Daphnia magna)
LC50 fish 2	9640 mg/l (96 Hours; Pimephales promelas; FLOW-THROUGH SYSTEM)
EC50 Daphnia 2	13299 mg/l (48 Hours; Daphnia magna)
Threshold limit algae 1	> 1000 mg/l (72 Hours; Scenedesmus subspicatus; GROWTH RATE)
Threshold limit algae 2	1800 mg/l (72 Hours; Algae; CELL NUMBERS)

ethylene glycol (107-21-1)	
LC50 fishes 1	53000 mg/l (96 Hours; Pimephales promelas; STATIC SYSTEM)
EC50 Daphnia 1	> 10000 mg/l (24 Hours; Daphnia magna)
LC50 fish 2	40761 mg/l (96 Hours; Salmo gairdneri / Oncorhynchus mykiss; STATIC SYSTEM)
Threshold limit algae 1	> 10000 mg/l (168 Hours; Scenedesmus quadricauda)
Threshold limit algae 2	2000 mg/l (192 Hours; Microcystis aeruginosa)

2-butoxyethanol (111-76-2)	
LC50 fishes 1	116 ppm (96 Hours; Cyprinodon variegatus; STATIC SYSTEM)
EC50 Daphnia 1	1700 mg/l (48 Hours; Daphnia sp.)
LC50 fish 2	1341 ppm (96 Hours; Lepomis macrochirus)
EC50 Daphnia 2	1720 mg/l (24 Hours; Daphnia magna)
TLM fish 1	100 - 1000,96 Hours; Pisces
TLM other aquatic organisms 1	100 - 1000,96 Hours
Threshold limit algae 1	900 mg/l (168 Hours; Scenedesmus quadricauda)
Threshold limit algae 2	35 mg/l (192 Hours; Microcystis aeruginosa)

iron(III) oxide (1309-37-1)	
LC50 fishes 1	> 1000 mg/l (48 Hours; Leuciscus idus; NOMINAL CONCENTRATION)

1.2.2. Persistence and degradability

Adgreencoat EX	
Persistence and degradability	May cause long-term adverse effects in the environment.

tin dioxide (18282-10-5)	
Persistence and degradability	Biodegradability: not applicable. Adsorbs into the soil.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable

diuron (330-54-1)	
Persistence and degradability	Not readily biodegradable in water. Forming sediments in water. Non degradable in the soil. Adsorbs into the soil.



ethanol (64-17-5)	
Persistence and degradability	Readily biodegradable in water. test: 81 %, OECD 302B Zahn- Well . test: 0%, 28d, mitil, OECD 301C . According to literature, degradable in the soil.
Biochemical oxygen demand (BOD)	0,8 - 0,967 g O ² /g substance
Chemical oxygen demand (COD)	1,70 g O ² /g substance
ThOD	2,10 g O ² /g substance
BOD (% of ThOD)	43 % ThOD

titanium(IV) oxide (13463-67-7)	
Persistence and degradability	Biodegradability: not applicable.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable

2-propanol (67-63-0)	
Persistence and degradability	Readily biodegradable in water. According to literature, easily degradable in the soil. According to literature, degradable in the soil in anaerobic conditions.
Biochemical oxygen demand (BOD)	1,19 g O ² /g substance
Chemical oxygen demand (COD)	2,23 g O ² /g substance
ThOD	2,40 g O ² /g substance
BOD (% of ThOD)	49 % ThOD

zirconium(IV)oxide (1314-23-4)	
Persistence and degradability	Biodegradability: not applicable. Biodegradability in soil: not applicable. Adsorbs into the soil.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable

ethylene glycol (107-21-1)	
Persistence and degradability	Readily biodegradable in water. According to literature, degradable in the soil.
Biochemical oxygen demand (BOD)	0,47 g O ² /g substance
Chemical oxygen demand (COD)	1,24 g O ² /g substance
ThOD	1,29 g O ² /g substance
BOD (% of ThOD)	36 % ThOD

2-butoxyethanol (111-76-2)	
Persistence and degradability	Readily biodegradable in water. According to literature, degradable in the soil. Photodegradation in the air.
Biochemical oxygen demand (BOD)	0,71 g O ² /g substance
Chemical oxygen demand (COD)	2,20 g O ² /g substance
ThOD	2,305 g O ² /g substance
BOD (% of ThOD)	31 % ThOD

iron(III) oxide (1309-37-1)	
Persistence and degradability	Biodegradability: not applicable. Adsorbs into the soil.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable



silica,precipitated (112926-00-8)	
Persistence and degradability	Biodegradability: not applicable.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable

1.2.3. Bioaccumulative potential

Adgreencoat EX	
Bioaccumulative potential	Not established.

tin dioxide (18282-10-5)	
Bioaccumulative potential	No bioaccumulation data available.

diuron (330-54-1)	
BCF fish 1	< 14 (Cyprinus carpio; CHRONIC)
BCF fish 2	174 - 305 (Pisces)
Log Pow	2,68 - 2,96
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).

ethanol (64-17-5)	
Log Pow	-0,31 (exp.)
Bioaccumulative potential	Bioaccumulation: not applicable.

titanium(IV) oxide (13463-67-7)	
Bioaccumulative potential	No bioaccumulation data available.

2-propanol (67-63-0)	
Log Pow	0,05 (Experimental value)
Bioaccumulative potential	Slightly or not bioaccumulative.

zirconium(IV)oxide (1314-23-4)	
Bioaccumulative potential	According to literature, not bioaccumulative.

ethylene glycol (107-21-1)	
BCF fish 1	10 (72 Hours; Leuciscus idus)
BCF other aquatic organisms 1	0,21 - 0,6 (Procambarus sp.; CHRONIC)
BCF other aquatic organisms 2	190 (24 Hours;Algae)
Log Pow	-1,34 (Experimental value)
Bioaccumulative potential	Slightly bioaccumulative.

2-butoxyethanol (111-76-2)	
Log Pow	0,81 (Experimental value)
Bioaccumulative potential	Slightly or not bioaccumulative.

iron(III) oxide (1309-37-1)	
Bioaccumulative potential	No bioaccumulation data available.

silica,precipitated (112926-00-8)	
Log Pow	Not applicable
Bioaccumulative potential	No bioaccumulation data available.



12.4. Mobility in soil

ethanol (64-17-5)	
Surface tension	0,022 N/m (20 °C)

2-propanol (67-63-0)	
Surface tension	0,021 N/m (25 °C)

ethylene glycol (107-21-1)	
Surface tension	0,048 N/m (20 °C)

2-butoxyethanol (111-76-2)	
Surface tension	0,027 N/m (25 °C)

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

Other information: Avoid release to the environment. Not in groundwater, surfacewater or sewerage.

SECTION 13 Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.
Dispose of contents/container to to an authorized waste treatment plant.

Ecology - waste materials: Avoid release to the environment.

SECTION 14 Transport information

In accordance with ADR / RID / ADNR / IMDG / ICAO / IATA

14.1. UN number

UN-No. : 3082

14.2. UN proper shipping name

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Transport document description: UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE,
LIQUID, N.O.S., 9, III, (E)

14.3. Transport hazard class(es)

Class (UN): 9

Hazard labels (UN): 9



14.4. Packing group

Packing group (UN) : III

14.5. Environmental hazards

Dangerous for the environment :



Other information:

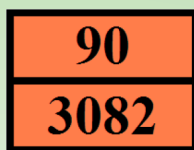
No supplementary information available



14.6. Special precautions for user

14.6.1. Overland transport

Hazard identification number (Kemler No.): 90
Classification code (UN): M6
Orange plates :



Special provision (ADR) 274, 335, 601
Transport category (ADR) 3
Tunnel restriction code : E
Limited quantities (ADR) 5L
Excepted quantities (ADR) : EI
EAC code : •3Z

14.6.2. Transport by sea

MFAG-No. : 171

14.6.3. Air transport

No additional information 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

No REACH Annex XVII restrictions
Contains no REACH candidate substance
VOC content : 26 g/l

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

▶ SECTION 16 Other information

Indication of changes:

Revision: *

Data sources:

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.



Other information:

REACH Disclaimer:

This information is based on current knowledge. Consistency of data in the SDS with CSR is considered, as far as the information is available at the time of compilation (cfr Revision date and Version number). **DISCLAIMER OF LIABILITY** The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

Full text of R-, H- and EUH-phrases:

Acute Tox. 4 (Dermal)	Acute toxicity (dermal) Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhalation) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment - Chronic Hazard Category 1
Carc. 2	Carcinogenicity Category 2
Eye Irrit. 2	Serious eye damage/eye irritation Category 2
Flam. Liq. 2	Flammable liquids Category 2
Resp. Sens. 1	Respiratory sensitisation Category 1
Skin Irrit. 2	skin corrosion/irritation Category 2
Skin Sens. 1	Skin sensitisation Category 1
STOT RE 2	Specific target organ toxicity (repeated exposure) Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H225	Highly flammable liquid and vapour
H302	Harmful if swallowed
H312	Harmful in contact with skin
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H332	Harmful if inhaled
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
H336	May cause drowsiness or dizziness
H351	Suspected of causing cancer
H373	May cause damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
R 11	Highly flammable.
R20/21/22	Harmful by inhalation, in contact with skin and if swallowed.
R22	Harmful if swallowed.
R36	Irritating to eyes.
R36/38	Irritating to eyes and skin.
R40	Limited evidence of a carcinogenic effect.
R42	May cause sensitization by inhalation.
R43	May cause sensitisation by skin contact.
R48/22	Harmful: danger of serious damage to health by prolonged exposure if swallowed.



R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R67	Vapours may cause drowsiness and dizziness.
F	Highly flammable
N	Dangerous for the environment
Xi	Irritant
Xn	Harmful

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

