



Safety Data Sheet
according to Regulation (EC)
No. 2015/830

1. Identification of the Substance/Mixture and the Company/Undertaking

1.1	Product Identifier	8670	Revision Date:	21/01/2021
	Product Name:	CARBOXANE 2000 TOPCOAT / CARBOXANE 2000 TOPCOAT CARBO-KIT PART A	Supersedes Date:	New SDS
			Version Number:	1
	UFI Code:	V4K0-306V-M00F-EN82		
1.2	Relevant identified uses of the substance or mixture and uses advised against	Base component of 2 components coating - Industrial use. Advised against: Please see Technical Data Sheet.		
	Product to be mixed with:	CARBOXANE 2000 TOPCOAT PART B		
	Mixing ratio by volume Part A/ Part B:	2:1		
1.3	Details of the supplier of the safety data sheet			
	Importer:	None		
	Manufacturer:	Carboline Norge AS Postboks 593 3412 Lierstranda Norway		
		Regulatory / Technical Information: +47 32 85 73 00 +47 32 85 74 00		
	Datasheet Produced by:	Chen, Shi - hms@carboline.com		
1.4	Emergency telephone number:	CHEMTREC +1 703 5273887 (Outside US)		

2. Hazard Identification

2.1 Classification of the substance or mixture

Classification according to Classification, Labeling & Packaging Regulation (EC) 1272/2008

Allergic effects
 Hazardous to the aquatic environment, Chronic, category 3
 Serious Eye Damage, category 1
 Skin drying or cracking

HAZARD STATEMENTS

Skin drying or cracking	EUH066
Allergic effects	EUH208
Serious Eye Damage, category 1	H318
Hazardous to the aquatic environment, Chronic, category 3	H412

2.2 Label elements

Symbol(s) of Product



Signal Word

Danger

Named Chemicals on Label

[3-(2,3-epoxypropoxy)propyl]trimethoxysilane

HAZARD STATEMENTS

Skin drying or cracking	EUH066	Repeated exposure may cause skin dryness or cracking. Contains 2,3-epoxypropyl methacrylate, n-butyl acrylate, bis (1,2,2,6,6-pentamethyl-4-piperidyl) sebacate, n,n'-1,6-hexanedylbis(12-hydroxy-octadecanamide), methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate. May produce an allergic reaction.
Allergic effects	EUH208	
Serious Eye Damage, category 1	H318	Causes serious eye damage.
Hazardous to the aquatic environment, Chronic, category 3	H412	Harmful to aquatic life with long lasting effects.

PRECAUTION PHRASES

P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+352	IF ON SKIN: Wash with plenty of soap and water.
P304+340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.

2.3 Other hazards

No Information

Results of PBT and vPvB assessment:

The product does not meet the criteria for PBT/vPvB in accordance with Annex XIII.

3. Composition/Information On Ingredients

3.2 Mixtures

Hazardous Ingredients

<u>CAS-No.</u>	<u>EINEC No.</u>	<u>Name According to EEC</u>	<u>%</u>
13463-67-7	236-675-5	titanium dioxide	25 - <50
2530-83-8	219-784-2	[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	10 - <25
123-86-4	204-658-1	n-butyl acetate	2.5 - <10
3648-18-8	222-883-3	dioctyltin dilaurate	1.0 - <2.5
67762-90-7	614-122-2	Siloxanes and Silicones, di-Me, reaction products with silica	1.0 - <2.5
1330-20-7	215-535-7	xylene	1.0 - <2.5
55349-01-4		n,n'-1,6-hexanediyldis(12-hydroxy-octadecanamide)	0.1 - <1.0
41556-26-7	255-437-1	bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	0.1 - <1.0
100-41-4	202-849-4	ethylbenzene	0.1 - <1.0
77-99-6		trimethylolpropane	0.1 - <1.0
82919-37-7	280-060-4	methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	0.1 - <1.0
141-32-2	205-480-7	n-butyl acrylate	0.1 - <1.0

<u>CAS-No.</u>	<u>REACH Reg No.</u>	<u>CLP Symbols</u>	<u>CLP Hazard Statements</u>	<u>M-Factors</u>
13463-67-7	01-2119489379-17			
2530-83-8	01-2119513212-58	GHS05	H318	
123-86-4	01-2119485493-29	GHS02-GHS07	H226-336	
3648-18-8		GHS08	H361-373	
67762-90-7				
1330-20-7	01-2119488216-32	GHS02-GHS07-GHS08	H226-304-312-315-319-332-335-373	
55349-01-4		GHS07	H317-413	
41556-26-7		GHS07-GHS09	H317-400-410	
100-41-4	01-2119489370-35	GHS02-GHS07-GHS08	H225-304-332-373-412	
77-99-6		GHS08	H361	
82919-37-7		GHS07-GHS09	H317-400-410	
141-32-2	01-2119453155-43	GHS02-GHS07	H226-315-317-319-332-335-412	

Additional Information: The text for CLP Hazard Statements shown above (if any) is given in Section 16.

4. First-aid Measures

4.1 Description of First Aid Measures

GENERAL NOTES: Show this safety data sheet to the doctor in attendance.

AFTER INHALATION: Move to fresh air. Give oxygen or artificial respiration if needed. When risk of unconsciousness, place and transport the victim in secured recovery position. Provide fresh air, rest and warmth. Call a physician immediately.

AFTER SKIN CONTACT: Use a mild soap if available. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If skin irritation persists, call a physician. Do not use solvent or thinners to clean skin.

AFTER EYE CONTACT: Immediate medical attention is required. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses.

AFTER INGESTION: Do not induce vomiting. Get immediate medical attention. Never give anything by mouth to an unconscious person. If vomiting occurs spontaneously: Keep head below hips to prevent aspiration of stomach vomit into lungs. Provide fresh air, rest and warmth.

Self protection of the first aider:

No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

4.2 Most important symptoms and effects, both acute and delayed

May cause sensitization by skin contact. Causes serious eye damage.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

No information available on clinical testing and medical monitoring. Specific toxicological information on substances, if available, can be found in section 11.

When symptoms persist or in all cases of doubt seek medical advice.

5. Fire-fighting Measures

5.1 Extinguishing Media:

Carbon Dioxide, Dry Chemical, Foam

FOR SAFETY REASONS NOT TO BE USED: Alcohol, Alcohol based solutions, any other media not listed above.

Do not use a solid water stream as it may scatter and spread fire.

5.2 Special hazards arising from the substance or mixture

Heating or fire conditions liberates toxic gas. As the product contains combustible organic components, fire will produce dense black smoke containing hazardous products of combustion (see section 10). Vapours may form explosive mixtures with air. Solvent vapours are heavier than air and may spread along floors and ignite.

5.3 Advice for firefighters

In the event of fire, wear self-contained breathing apparatus. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Keep containers and surroundings cool with water spray.

6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Use personal protective equipment. Remove all sources of ignition.

6.2 Environmental precautions

Do not allow material to contaminate ground water system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained.

6.3 Methods and material for containment and cleaning up

Do not let product enter drains. Prevent further leakage or spillage if safe to do so. 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). Clean with detergents. Avoid solvents.

6.4 Reference to other sections

Please refer to EU disposal requirements or country specific disposal requirements for this material. See Section 13 for further information.

7. Handling and Storage

7.1 Precautions for safe handling

Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. Electrical equipment should be protected to the appropriate standard. Use only in area provided with appropriate exhaust ventilation. Provide sufficient air exchange and/or exhaust in work rooms. Wear personal protective equipment. Open drum carefully as content may be under pressure. Do not breathe vapours or spray mist. Use only explosion-proof equipment. Apply technical measures to comply with the occupational exposure limits (see section 8). Wash hands before breaks and at the end of workday. When using, do not eat, drink or smoke.

7.2 Conditions for safe storage, including any incompatibilities

CONDITIONS TO AVOID: Exposure to moisture. Avoid heat, sparks, flames and other ignition sources.

STORAGE CONDITIONS: Store in original container. Keep locked up or in an area accessible only to qualified or authorised persons. Keep container closed. Store in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. Store in upright position only. Store away from: oxidising materials, acids, and alkalis.

7.3 Specific end use(s)

No specific advice for end use available.

8. Exposure Controls/Personal Protection

8.1 Control parameters

Ingredients with Occupational Exposure Limits (EU)

<u>Name</u>	<u>CAS-No.</u>	<u>LTEL ppm</u>	<u>STEL ppm</u>	<u>STEL mg/m3</u>	<u>LTEL mg/m3</u>
titanium dioxide	13463-67-7				
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	2530-83-8				
n-butyl acetate	123-86-4	50	150	723	241
dioctyltin dilaurate	3648-18-8				
Siloxanes and Silicones, di-Me, reaction products with silica	67762-90-7				
xylene	1330-20-7	50	100	442	221
n,n'-1,6-hexanediybis(12-hydroxy-octadecanamide)	55349-01-4				
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	41556-26-7				
ethylbenzene	100-41-4	100	200	884	442
trimethylolpropane	77-99-6				
methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	82919-37-7				
n-butyl acrylate	141-32-2	2	10	53	11

<u>Name</u>	<u>CAS-No.</u>	<u>OEL Note</u>
titanium dioxide	13463-67-7	
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	2530-83-8	
n-butyl acetate	123-86-4	
dioctyltin dilaurate	3648-18-8	
Siloxanes and Silicones, di-Me, reaction products with silica	67762-90-7	
xylene	1330-20-7	Can be absorbed through the skin.
n,n'-1,6-hexanediybis(12-hydroxy-octadecanamide)	55349-01-4	
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	41556-26-7	
ethylbenzene	100-41-4	Can be absorbed through the skin.
trimethylolpropane	77-99-6	
methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	82919-37-7	
n-butyl acrylate	141-32-2	

FURTHER ADVICE: Refer to the regulatory exposure limits for the workforce enforced in each country. Some components may not have been classified under the EU CLP Regulation. Annotations: Carc = Capable of causing cancer and/or heritable genetic damage, Sen = Capable of causing occupational asthma, Sk = Can be absorbed through the skin.

8.2 Exposure controls

Personal Protection

RESPIRATORY PROTECTION: Use compressed air or fresh air breathing apparatus in closed compartments. Wear respiratory protection with combination filter (dust and gas filter, EN 14387:2004+A1:2008) during spraying operations: Gas filter type A2 (organic substances). Dust filter P3 (for fine dust).

EYE PROTECTION: Face-shield. Safety glasses with side-shields conforming to EN166.

HAND PROTECTION: Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact). Be aware that in daily use the durability of a chemical resistant protective glove can be notably shorter than the break through time measured according to EN 374, due to the numerous outside influences (e.g. temperature). Long sleeved clothing. Remove and wash contaminated clothing before re-use. Use chemical resistant gloves and lotions and barrier creams to prevent drying of the skin. Protective gloves complying with EN 374: Butyl rubber. Nitril rubber. Recommended glove material for mixed product: Protective gloves complying with EN 374: Butyl rubber. Nitril rubber.

OTHER PROTECTIVE EQUIPMENT: Ensure that eyewash stations and safety showers are close to the workstation location.

ENGINEERING CONTROLS: Ensure adequate ventilation, especially in confined areas.

Chemical Name:

titanium dioxide

EC No.:

236-675-5

CAS-No.:

13463-67-7

DNELs - Derived no effect level

Route of Exposure	Workers				Consumers				
	Acute effect local	Acute effects systemic	Chronic effects local	Chronic effects systemic	Acute effect local	Acute effects systemic	Chronic effects local	Chronic effects systemic	
Oral	Not required							10 mg/m ³	700 mg/kg/ bw/ day
Inhalation			10 mg/m ³						
Dermal									

PNEC's - Predicted no effect concentration

	PNEC
Environmental protection target	
Fresh water	0.127 mg/L
Fresh water sediments	1000 mg/kg dw
Marine water	1 mg/L
Marine sediments	100 mg/kg dw
Food chain	1667 mg/kg (oral)
Microorganisms in sewage treatment	100 mg/kg
soil (agricultural)	100 mg/kg dw
Air	

Chemical Name:

[3-(2,3-epoxypropoxy)propyl]trimethoxysilane

EC No.:

219-784-2

CAS-No.:

2530-83-8

DNELs - Derived no effect level

Route of Exposure	Workers				Consumers			
	Acute effect local	Acute effects systemic	Chronic effects local	Chronic effects systemic	Acute effect local	Acute effects systemic	Chronic effects local	Chronic effects systemic
Oral	Not required							12.5 mg/kg bw/ day
Inhalation		147 mg/m ³		147 mg/m ³				12.5 mg/kg bw/ day
Dermal		21 mg/kg bw/ day		21 mg/kg bw/day				12.5 mg/kg bw/ day

PNEC's - Predicted no effect concentration

	PNEC
Environmental protection target	
Fresh water	1 mg/l
Fresh water sediments	0.79 mg/kg
Marine water	0.1 mg/l
Marine sediments	360 µg/kg sediment dw
Food chain	
Microorganisms in sewage treatment	
soil (agricultural)	140 µg/kg soil dw
Air	

Chemical Name:

n-butyl acetate

EC No.:

204-658-1

CAS-No.:

123-86-4

DNELs - Derived no effect level

Route of Exposure	Workers				Consumers			
	Acute effect local	Acute effects systemic	Chronic effects local	Chronic effects systemic	Acute effect local	Acute effects systemic	Chronic effects local	Chronic effects systemic
Oral	Not required				300 mg/m ³	2 mg/kg bw/day - neurotoxicity-	35.7 mg/m ³	2 mg/kg bw/day - neurotoxicity-
Inhalation	600 mg/m ³ (irritation (respiratory tract))	600 mg/m ³ 11 mg/kg bw/day - neurotoxicity-	300 mg/m ³	300 mg/m ³ 11 mg/kg bw/day	(irritation (respiratory tract))	300 mg/m ³	(irritation (respiratory tract))	35.7 mg/m ³ 6 mg/kg bw/day
Dermal					No hazard identified	(irritation (respiratory tract)) 6 mg/kg bw/day - neurotoxicity		

PNEC's - Predicted no effect concentration

Environmental protection target	PNEC
Fresh water	0.18 mg/L
Fresh water sediments	0.981 mg/kg dw
Marine water	0.018 mg/L
Marine sediments	0.098 mg/kg dw
Food chain	
Microorganisms in sewage treatment	35.6 mg/L
soil (agricultural)	0.09 mg/kg
Air	

Chemical Name:

xylene

EC No.:

215-535-7

CAS-No.:

1330-20-7

DNELs - Derived no effect level

Route of Exposure	Workers				Consumers			
	Acute effect local	Acute effects systemic	Chronic effects local	Chronic effects systemic	Acute effect local	Acute effects systemic	Chronic effects local	Chronic effects systemic
Oral	Not required				174 mg/m ³	174 mg/m ³		1.6 mg/kg bw/day
Inhalation	289 mg/m ³	289 mg/m ³		77 mg/m ³				14.8 mg/m ³
Dermal				180 mg/kg bw/day				108 mg/kg bw/day

PNEC's - Predicted no effect concentration

Environmental protection target	PNEC
Fresh water	0.327 mg/L
Fresh water sediments	12.46 mg/kg
Marine water	0.327 mg/L
Marine sediments	12.46 mg/kg
Food chain	
Microorganisms in sewage treatment	6.58 mg/L
soil (agricultural)	2.31 mg/kg
Air	

9. Physical and Chemical Properties**9.1 Information on basic physical and chemical properties****Appearance:**

Misc. Colours

Physical State	Liquid
Odor	None / Uncharacteristic
Odor threshold	Not determined
pH	Not determined
Melting point / freezing point (°C)	Not determined
Boiling point/range (°C)	126 - 144
Flash Point, (°C)	>100
Evaporation rate	Not determined
Flammability (solid, gas)	Not determined
Upper/lower flammability or explosive limits	1.0 - 8.0
Vapour Pressure, mmHg	Not determined
Vapour density	>1 (air = 1)
Relative density	Not determined
Solubility in / Miscibility with water	Negligible
Partition coefficient: n-octanol/water	Not determined
Auto-ignition temperature (°C)	400
Decomposition temperature (°C)	Not determined
Viscosity	75 - 80 KU
Explosive properties	Not determined
Oxidising properties	Not determined

9.2 Other information

VOC Content g/l:	55
Grams of VOC per liter of coating product as applied per ISO 11890-1 and/or ISO 11890-2.	
Specific Gravity (g/cm³)	1.38

10. Stability and Reactivity

10.1 Reactivity

No reactivity hazards known under normal storage and use conditions.

10.2 Chemical stability

Stable under normal conditions. Methanol is given off during processing and by reaction with water.

10.3 Possibility of hazardous reactions

No reactivity hazards known under normal storage and use conditions.

10.4 Conditions to avoid

Exposure to moisture. Avoid heat, sparks, flames and other ignition sources.

10.5 Incompatible materials

Keep away from strong oxidising agents and strongly acid or alkaline materials.

10.6 Hazardous decomposition products

In case of fire or hot work operations, hazardous decomposition products may be formed such as: Carbon monoxide (CO), carbon dioxide (CO₂), oxides of nitrogen (NO_x). Metal oxides. Methanol in case of hydrolysis.

11. Toxicological Information

11.1 Information on toxicological effects**Acute Toxicity:****Oral LD50:** No information available on the product itself as the product is not tested.**Inhalation LC50:** No information available on the product itself as the product is not tested.**Irritation:** No information available.**Corrosivity:** Causes serious eye damage.**Sensitization:** No information available.**Repeated dose toxicity:** No information available.**Carcinogenicity:** No information available.**Mutagenicity:** No information available.**Toxicity for reproduction:** No information available.**STOT-single exposure:** No information available.**STOT-repeated exposure:** No information available.**Aspiration hazard:** No information available.

If no information is available above under Acute Toxicity then the acute effects of this product have not been tested.
Data on individual components are tabulated below:

CAS-No.	Name According to EEC	Oral LD50	Dermal LD50	Vapor LC50	Gas LC50	Dust/Mist LC50
13463-67-7	titanium dioxide	>5000 mg/kg (oral-rat)	10000 mg/kg	No information	No information	>6.82 mg/L (inh- rat-4h)
2530-83-8	[3-(2,3-epoxypropoxy)propyl] trimethoxysilane	8025 mg/kg (oral-rat)	4250 mg/kg (dermal-rabbit)	>5300 mg/L (inh/4h/ aerosols/rat)	No information	No information
123-86-4	n-butyl acetate	10760 mg/kg (rat-oral)	14112 mg/Kg (rabbit-dermal)	23.4 mg/l/4/h (rat)	No information	No information
3648-18-8	dioctyltin dilaurate	6450 mg/kg (oral-rat)	6954 mg/kg (dermal-rabbit)	No information	No information	No information
67762-90-7	Siloxanes and Silicones, di- Me, reaction products with silica	6350 mg/kg (oral-rat)	>2000 mg/kg (dermal-rat)	No information	No information	No information
1330-20-7	xylene	>2000 mg/kg (oral-rat)	1100 mg/kg (ATE dermal- rabbit)	11 mg/L (ATE inh/vapour)	4500 ppmV (ATE inh - Gas)	1.5 mg/L (ATE inh/dust/mist)
100-41-4	ethylbenzene	3500 mg/kg rat, oral	5510 mg/kg, rabbit	4000 ppm, rat, 4h	10000 ppm	1.5 mg/L
141-32-2	n-butyl acrylate	3143 mg/kg (Oral-rabbit)	>2000 mg/Kg (Dermal, rabbit,2000-302 4 mg/kg)	10.3 mg/L (inhalation vapor, rat, 4h)	No information	No information

Additional Information:

This product may contain Ethyl Benzene, which is listed by IARC as possibly carcinogenic to humans (Group 2B). This listing is based on inadequate evidence of carcinogenicity in humans and sufficient evidence in experimental animals. Respiration of solvent vapour may cause dizziness. Corrosive - causes irreversible eye damage. Chronic exposure causes drying effect on the skin and eczema. This product may contain Titanium Dioxide, which is listed by IARC as possibly carcinogenic to humans (Group 2B). This listing is based on inadequate evidence of carcinogenicity in humans and sufficient evidence in experimental animals. This classification is relevant when exposed to titanium dioxide in dust or powder form only, including cured product that is subject to sanding, grinding, cutting, or other surface preparation activities. Chronic exposure has been associated with various neurotoxic effects including permanent brain damage. Inhalation of vapour or mist can cause headache, nausea, irritation of nose, throat, and lungs.

12. Ecological Information

12.1 Toxicity:

EC50 48hr (Daphnia):	No information
IC50 72hr (Algae):	No information
LC50 96hr (fish):	No information

12.2 Persistence and degradability: No information

12.3 Bioaccumulative potential: No information

12.4 Mobility in soil: No information

12.5 Results of PBT and vPvB assessment: The product does not meet the criteria for PBT/vPvB in accordance with Annex XIII.

12.6 Other adverse effects: No information

<u>CAS-No.</u>	<u>Name According to EEC</u>	<u>EC50 48hr</u>	<u>IC50 72hr</u>	<u>LC50 96hr</u>
13463-67-7	titanium dioxide	>100 mg/l (EC50, 48h, Daphnia magna OECD202)	16 mg/l (EC50, 72h, Pseudokirchnerella subcapitata)	>100 mg/l (EC50, 96h, Oncorhynchus Mykiss OECD203)
2530-83-8	[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	324 mg/L (Daphnia magna)	No information	55 mg/L (cyprinus carpio)
123-86-4	n-butyl acetate	44 mg/L (Daphnia magna)	648 mg/L (Desmodesmus subspicatus)	18 mg/L (Pimephales promelas)
1330-20-7	xylene	165 mg/L (Daphnia magna 24h)	3 - 5 mg/L (Selenastrum sp.)	2 - 11 mg/L (Roccus saxatilis), 8.2 mg/L (Salmo gairdneri), 13.5 mg/L (Lepomis macrochirus), 21.0 mg/L (Pimephales promelas)
41556-26-7	bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	No information	No information	0.97 mg/L (Lepomis macrochirus)
100-41-4	ethylbenzene	1.37 mg/L	No information	32 mg/L (Bluegill)
82919-37-7	methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	No information	No information	0.97 mg/L (Lepomis macrochirus)
141-32-2	n-butyl acrylate	8.2 mg/L (Daphnia magna)	2.65 mg/L; 5.9 mg/L (Pseudokirchneriella subcapitata)	2.1 mg/L (Cyprinus carpio); 5.2 mg/L (Oncorhynchus mykiss)

13. Disposal Considerations

13.1 WASTE TREATMENT METHODS: Do not burn, or use a cutting torch on, the empty drum. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Empty containers should be taken to an approved waste handling site for recycling or disposal. Dispose of waste material at an approved (hazardous) waste treatment/disposal facility in accordance with applicable local state, and federal regulations. Do not dispose of waste with normal garbage, or to sewer systems.

European Waste Code: 08 01 11*

Packaging Waste Code: 15 01 10*

14. Transport Information

14.1 UN number	Not regulated for transport according to U.S. DOT, ADR/RID, IMDG, and IATA regulations.
14.2 UN proper shipping name	Not regulated for transport according to U.S. DOT, ADR/RID, IMDG, and IATA regulations.
Technical name	Not applicable
14.3 Transport hazard class(es)	No Information
Subsidiary shipping hazard	Not applicable
14.4 Packing group	No Information
14.5 Environmental hazards	No Information
14.6 Special precautions for user	No Information
EmS-No.:	No Information
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code	No Information

15. Regulatory Information

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

National Regulations:

Denmark Product Registration Number:	Not available
Danish MAL Code:	1 - 6
Danish MAL Code - Mixture:	2 - 6
Sweden Product Registration Number:	Not available
Norway Product Registration Number:	P-92429
WGK Class:	3
Covered by Directive 2012/18/EC (Seveso III):	Not applicable
Restrictions to product or to substances according to Annex XVII, Regulation (CE) 1907/2006:	Entry 20

Annex XIV - Authorisation List:

CAS-No. Name According to EEC

Not Applicable

SVHC - Substances of very high concern (Candidate List):**CAS-No. Name According to EEC**

Not Applicable

15.2 Chemical Safety Assessment:

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

16. Other Information**Text for CLP Hazard Statements shown in Section 3 describing each ingredient:**

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H361	Suspected of damaging fertility or the unborn child.
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.
H412	Harmful to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.

Reasons for revision

This is a new Safety Data Sheet (SDS). .

List of References

This Safety Data Sheet was compiled with data and information from the following sources:

The Ariel Regulatory Database provided by the 3E Corporation in Copenhagen, Denmark
 ESIS (The European Chemical Substances Information System), provided by the European Commission
 Joint Research Centre in Ispra, Italy
 Annex VI of the EU Council Directive 67/548/EEC
 Council Directive 67/548/EEC - Annex I or EU Council Directive 1999/45/EC
 EU Council Decision 2000/532/EC and its Annex entitled "List of Wastes"

Acronym & Abbreviation Key

CLP	Classification, Labeling & Packaging Regulation
EC	European Commission
EU	European Union
US	United States
CAS	Chemical Abstract Service
EINECS	European Inventory of Existing Chemical Substances
REACH	Registration, Evaluation, Authorization of Chemicals Regulation
GHS	Globally Harmonized System of Classification and Labeling of Chemicals
LTEL	Long term exposure limit
STEL	Short term exposure limit
OEL	Occupational exposure limit
ppm	Parts per million
mg/m ³	Milligrams per cubic meter
TLV	Threshold Limit Value

ACGIH	American Conference of Governmental Industrial Hygienists
OSHA	Occupational Safety & Health Administration
PEL	Permissible Exposure Limits
VOC	Volatile organic compounds
g/l	Grams per liter
mg/kg	milligrams per kilogram
N/A	Not applicable
LD50	Lethal dose at 50%
LC50	Lethal concentration at 50%
EC50	Half maximal effective concentration
IC50	Half maximal inhibitory concentration
PBT	Persistent bioaccumulative toxic chemical
vPvB	Very persistent and very bioaccumulative
EEC	European Economic Community
ADR	International Transport of Dangerous Goods by Road
RID	International Transport of Dangerous Goods by Rail
UN	United Nations
IMDG	International Maritime Dangerous Goods Code
IATA	International Air Transport Association
MARPOL	International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978
IBC	International Bulk Container

For further information, please contact: Technical Services Department

The information on this sheet corresponds to our present knowledge. It is not a specification and it does not guarantee specific properties. The information is intended to provide general guidance as to health and safety based upon our knowledge of the handling, storage, and use of the product. It is not applicable to unusual or non-standard uses of the product or where instructions and recommendations are not followed.