

Safety Data Sheet according to Regulation (EC) No. 2020/878

SECTION 1: Identification of the Substance/Mixture and of the Company/Undertaking

1.1	Product Identifier	8660-0908	Revision Date:	21/04/2023
	Product Name:	CARBOTHANE 133 HG / CARBOTHANE 133 HG CARBO- KIT PART B	Supercedes Date:	06/09/2021
			Version Number:	3
	UFI Code:	R3J0-00X3-X00H-GJ89		
	Nano Form:	No		
1.2	Relevant identified uses of the substance or mixture and uses advised against	Hardener for 2 components coatings - Inc Advised against: Home DIY applications.	lustrial use.	
	Product to be mixed with: Mixing ratio by volume Part A/ Part B:	CARBOTHANE 133 HG / CARBOTHANE 4:1	133 HG CARBO-KIT PART A	
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:	Tarka, Malgorzata - hms@carboline.com		
1.4	Emergency telephone number:	CHEMTREC +1 703 5273887 (Outside U	S)	

SECTION 2: Hazards Identification

2.1 Classification of the substance or mixture

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

HAZARD STATEMENTS

Other EU extensions	EUH204
Flammable Liquid, category 3	H226

Skin Irritation, category 2	H315
Skin Sensitizer, category 1	H317
Eye Irritation, category 2	H319
Acute Toxicity, Inhalation, category 4	H332
STOT, single exposure, category 3, RTI	H335
STOT, repeated exposure, category 2	H373

2.2 Label elements

Symbol(s) of Product



Signal Word

Warning

Named Chemicals on Label

ethylbenzene, Hexamethylene diisocyanate, xylene, hexamethylene diisocyanate, oligomers

HAZARD STATEMENTS

EUH204 H226 H315 H317	Contains isocyanates. May produce an allergic reaction. Flammable liquid and vapour. Causes skin irritation. May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
P260 P280 P284 P302+352 P304+340	Do not breathe dust/fume/gas/mist/vapours/spray. Wear protective gloves/protective clothing/eye protection/ face protection. Wear respiratory protection. IF ON SKIN: Wash with plenty of soap and water. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P333+313	If skin irritation or rash occurs: Get medical advice/attention.
ADD-02	Content of hexamethylene diisocyanate (CAS-no 822-06-0): <0.5%.
ISO_ADD_74	As from 24 August 2023 adequate training is required before industrial or professional use.
	H226 H315 H317 H319 H332 H335 H373 P260 P280 P284 P302+352 P304+340 P333+313 ADD-02

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.

Endocrine disrupting properties - Toxicity

Based on the available data, the product does not contain substances identified as having endocrine disrupting properties according to Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 in concentration of 0,1% or higher.

Endocrine disrupting properties - Ecotoxicity

Based on the available data, the product does not contain substances identified as having endocrine disrupting properties according to Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 in concentration of 0,1% or higher.

SECTION 3: Composition/Information On Ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Hazardous ingredients

Name According to EEC EINECS No. CAS-No. REACH Reg No.	<u>%</u>	Classifications	SCL Value ATE Value M-Factor	
hexamethylene diisocyanate, oligomers 500-060-2	50 - <75	H317-332-335 Acute Tox. 4 Inhalation, Skin Sens. 1, STOT SE 3 RTI	SCL:	-
28182-81-2 01-2119485796-17			ATE:	-
			M-Factor:	-
2-methoxy-1-methylethyl-acetate 203-603-9 108-65-6	10 - <25	H226-336 Flam. Liq. 3, STOT SE 3 NE	SCL:	-
01-2119475791-29			ATE:	>5000 mg/kg (oral, dermal), >23.5 mg/L (inhal,, vapour 6h)
			M-Factor:	-
xylene 215-535-7 1330-20-7	10 - <25	H226-304-312-315-319-332-335-373-412 Acute Tox. 4 Dermal, Acute Tox. 4 Inhalation, Aquatic Chronic 3, Asp. Tox. 1, Eye Irrit. 2, Flam. Liq. 3, Skin Irrit. 2,	SCL:	-
01-2119488216-32		STOT RE 2, STOT SE 3 RTI	ATE:	-
			M-Factor:	-

ethylbenzene 202-849-4 100-41-4	2.5 - <10	H225-304-332-373-412 Acute Tox. 4 Inhalation, Aquatic Chronic 3, Asp. Tox. 1, Flam. Liq. 2, STOT RE 2	SCL:	-
01-2119489370-35			ATE:	-
			M-Factor:	-
Hexamethylene diisocyanate 212-485-8	0.1 - <1.0	H302-315-317-319-330-334-335 Acute Tox. 1 Inhalation, Acute Tox. 4	SCL:	H334 ≥ 0.5 H317 ≥ 0.5
822-06-0		Oral, Eye Irrit. 2, Resp. Sens. 1, Skin Irrit. 2, Skin Sens. 1, STOT SE 3 RTI		
01-2119457571-37			ATE:	-
			M-Factor:	-

Additional Information:

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

SECTION 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: Keep respiratory tract clear. 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: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. If eye irritation persists, consult a specialist.

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

Harmful by inhalation. Irritating to respiratory system. May cause sensitization by skin contact. Danger of serious damage to health by prolonged exposure. Irritating to eyes and skin.

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.

SECTION 5: Firefighting 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. Flash back possible over considerable distance. 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.

SECTION 6: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

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

6.1.2 For emergency responders

See Section 7, 8 and 10 for further information.

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

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 8 and 13 for further information.

SECTION 7: Handling and Storage

7.1 Precautions for safe handling

Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). 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. Preparation may charge electrostatically: always use earthing leads when transferring from one container to another. Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this preparation is being used. Use only in area provided with appropriate exhaust ventilation. To avoid ignition of vapours by static electricity discharge, all metal parts of the equipment must be grounded. Wear personal protective equipment. Open drum carefully as content may be under pressure. Use only explosion-proof equipment. Avoid breathing vapors, mist or gas. Avoid contact with skin, eyes and clothing. Apply technical measures to comply with the occupational exposure limits (see section 8).

Keep away from food, drink and animal feeding stuffs. When using, do not eat, drink or smoke. Wash hands before eating, drinking, or smoking.

7.2 Conditions for safe storage, including any incompatibilities

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

STORAGE CONDITIONS: Store in original container. Store in upright position only. Keep locked up or in an area accessible only to qualified or authorised persons. Storage of flammable liquids. Contamination may result in dangerous pressure increases - closed containers may rupture. Store in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. Store away from: oxidising materials, acids, and alkalis.

7.3 Specific end use(s)

The mixing and application to be in accordance with the technical data sheets.

SECTION 8: Exposure Controls/Personal Protection

8.1 Control parameters

Ingredients with Occupational Exposure Limits (UK WELS)

Name	CAS-No.	LTEL ppm	STEL ppm	STEL mg/m3	LTEL mg/m3
hexamethylene diisocyanate, oligomers	28182-81-2				
2-methoxy-1-methylethyl-acetate	108-65-6	50	100	548	274
xylene	1330-20-7	50	100	441	220
ethylbenzene	100-41-4	100	125	552	441
Hexamethylene diisocyanate	822-06-0			0.07	0.02
Name	CAS-No.	OEL Note			
hexamethylene diisocyanate, oligomers	28182-81-2				
2-methoxy-1-methylethyl-acetate	108-65-6	Sk			
xylene	1330-20-7	Sk			
ethylbenzene	100-41-4	Sk			
Hexamethylene diisocyanate	822-06-0	Sen			

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.

Chemical Name:

hexamethylene diisocyanate, oligomers

EC No.:	CAS-No.:
500-060-2	28182-81-2

DNELs - Derived no effect level

		Wo	orkers		Consumers			
Route of	Acute effect	Acute effects	Chronic	Chronic effects	Acute effect	Acute effects	Chronic	Chronic effects
Exposure	local	systemic	effects local	systemic	local	systemic	effects local	systemic
Oral		Not	required					
Inhalation	1 mg/m3		0.5 mg/m3		_			
Dermal	_							

PNEC's - Predicted no effect concentration

Environmental protection target	PNEC
Fresh water	0.127 mg/L
Fresh water sediments	266701 mg/kg dw
Marine water	0.0127 mg/L
Marine sediments	26670 mg/kg dw
Food chain	
Microorganisms in sewage treatment	88 mg/L
soil (agricultural)	53183 mg/kg dw
Air	

Chemical Name:

CAS-No.:
108-65-6

DNELs - Derived no effect level

		Wa	rkers		Consumers			
Route of	Acute effect	Acute effects	Chronic	Chronic effects	Acute effect	Acute effects	Chronic	Chronic effects
Exposure	local	systemic	effects local	systemic	local	systemic	effects local	systemic
Oral	Not required				33 mg/m3		33 mg/m3	1.67 mg/kg
Inhalation	550 mg/m ³			275 mg/m ³		_		33 mg/m ³
Dermal		_		796 mg/kg				320 mg/kg

PNEC's - Predicted no effect concentration

Environmental protection target	PNEC
Fresh water	0.635 mg/L
Fresh water sediments	3.29 mg/kg
Marine water	0.0635 mg/L
Marine sediments	0.329 mg/kg
Food chain	
Microorganisms in sewage treatment	100 mg/L
soil (agricultural)	0.29 mg/kg
Air	

Chemical Name:

xylene	
EC No.:	CAS-No.:
215-535-7	1330-20-7

DNELs - Derived no effect level

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

Chemical Name: ethylbenzene EC No.: CAS-No.: 202-849-4 100-41-4

DNELs - Derived no effect level

	Workers				Consumers			
Route of	Acute effect	Acute effects	Chronic	Chronic effects	Acute effect	Acute effects	Chronic	Chronic effects
Exposure	local	systemic	effects local	systemic	local	systemic	effects local	systemic
Oral		Not required						1.6 mg/kg bw/
Inhalation	293 mg/m3	293 mg/m3 77						day
Dermal				180 mg/kg bw/				15 mg/m3
				dav				

PNEC's - Predicted no effect concentration

Environmental protection target	PNEC
Fresh water	0.1 mg/L
Fresh water sediments	13.7 mg/kg
Marine water	0.01 mg/L
Marine sediments	1.37 mg/kg
Food chain	
Microorganisms in sewage treatment	
soil (agricultural)	2.68 mg/kg
Air	

Chemical Name:

Hexamethylene diisocyanate	
EC No.:	CAS-No.:
212-485-8	822-06-0

DNELs - Derived no effect level

	Workers			Consumers				
Route of	Acute effect	Acute effects	Chronic	Chronic effects	Acute effect	Acute effects	Chronic	Chronic effects
Exposure	local	systemic	effects local	systemic	local	systemic	effects local	systemic
Oral		Not required					·	
Inhalation	70 μg/m³	70 μg/m³	35 µg/m³	35 μg/m³				
	irritation	irritation	irritation	irritation				
	(respiratory (respiratory (respiratory (r			(respiratory tract)				
	tract)	tract)	tract)		-			
	,		/					

Dermal

PNEC's - Predicted no effect concentration

Environmental protection target	PNEC
Fresh water	77.4 μg/L
Fresh water sediments	13.34 µg/kg sediment dw
Marine water	7.74 μg/L
Marine sediments	1.344 µg/kg sediment dw
Food chain	
Microorganisms in sewage treatment	
soil (agricultural)	2.6 μg/kg soil dw
Air	

8.2 Exposure controls

Personal Protection

RESPIRATORY PROTECTION: Wear a battery powered assisted air-fed mask during spraying operations and long-term exposure. When working in confined or poorly ventilated spaces, a battery powered assisted air-fed mask must be used. When painting small areas, or when using a roller or brush, respiratory protection with combination filter (dust and gas filter, EN 14387:2004+A1:2008) may be used: Gas filter type A2 (organic substances). Dust filter P3 (for fine dust). **EYE PROTECTION:** If splashes are likely to occur, wear: Face-shield, tightly fitting safety goggles (EN 166).

HAND PROTECTION: Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. 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: Nitrile rubber. Viton®. Recommended glove material for mixed product: Protective gloves complying with EN

374: Nitril rubber. Viton®.

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.

SE	SECTION 9: Physical and Chemical Properties					
9.1	Information on basic physical and chemica Colour	l properties Yellowish				
	Physical State	Liquid				
	Odor	Solvent				
	Odor threshold	Not determined				
	рН	Not determined				
	Melting point / freezing point (°C)	Not determined				
	Boiling point or initial boiling point and boiling range (°C)	145 - 152				
	Flash Point, (°C)	38				
	Evaporation rate	Not determined				
	Flammability (solid, gas)	Not determined				
	Lower and upper explosive limit	1.0 - 10.8				
	Vapour Pressure	Not determined				
	Relative vapour density	>1 (air = 1)				
	Density and/or relative density	1,05 - 1,09				
	Solubility in / Miscibility with water	Immiscible				
	Partition coefficient: n-octanol/water	Not determined				
	Auto-ignition temperature (°C)	460				
	Decomposition temperature (°C)	>150				
	Kinematic viscosity	ca. 250 mPa.s				
	Particle characteristics	Not applicable to liquids				
9.2	Other information					
	VOC Content g/I:	267				
	Grams of VOC per liter of coating product a	as applied per ISO 11890-1 and/or ISO 11890-2.				
	Specific Gravity (g/cm3)	1.07				

SECTION 10: Stability and Reactivity

10.1 Reactivity

Reacts violently with amines and alcohol.

10.2 Chemical stability

Stable under recommended storage conditions. Container can be pressurized by carbon dioxide due to reaction with humid air and/or water.

10.3 Possibility of hazardous reactions

Preparation reacts slowly with water resulting in evolution of CO2.

10.4 Conditions to avoid

Avoid heat, sparks, flames and other ignition sources.

10.5 Incompatible materials

Keep away from oxidising agents, strongly acid or alkaline materials, as well as of amines, alcohols and water.

10.6 Hazardous decomposition products

Carbon monoxide, carbon dioxide, nitrogen oxide, cyanides, isocyanate vapours.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

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.
Dermal LD50:	No information available on the product itself as the product is not tested.
Irritation:	Irritating to eyes and skin.
Corrosivity:	No information available.
Sensitization:	May cause an allergic skin reaction.
Repeated dose toxicity:	No information available.
Carcinogenicity:	No information available.
Mutagenicity:	No information available.
Toxicity for reproduction:	No information available.
STOT-single exposure:	Vapour/spray mist may irritate respiratory system and lungs.
STOT-repeated exposure:	Central nervous system depression.
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
28182-81-2	hexamethylene diisocyanate, oligomers	>2500 mg/kg (oral, rat)	>2000 mg/kg (dermal, rat, M- F)	462 mg/m3	No information	No information
108-65-6	2-methoxy-1-methylethyl- acetate	6190 mg/kg (oral, rat)	>5000 mg/kg (dermal, rat)	1105 mg/ m3/4H	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	5001 mg/kg, rabbit	17.2 mg/L. rat, 4h	10000 ppm	1.5 mg/L
822-06-0	Hexamethylene diisocyanate	710 mg/kg (oral-rat)	No information	0.124 mg/L (inhalation, 4h, rat)	23 ppm / 4h	No information

Additional Information:

Allergic persons and workers with difficulty in breathing should not be employed in powder application. Exposure to component solvent vapour concentrations in excess of the stated occupational exposure limit may result in adverse health effect, such as mucous membrane and respiratory system irritation and adverse effect on kidney, liver and central nervous system. Persons allergic to isocyanates, and particularly those suffering from asthma or other respiratory conditions, should not work with isocyanates. Respiration of solvent vapour may cause dizziness. May cause allergic respiratory reaction. May cause allergic skin reaction. Isocyanates may cause acute irritation and/or sensitisation of the respiratory system leading to tightness of the chest, wheeziness and an asthmatic condition. 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. Hot processing of this material release isocyanate containing vapours, known to be toxic by inhalation.

11.2 Information on other hazards

Endocrine disrupting properties - Toxicity

Based on the available data, the product does not contain substances identified as having endocrine disrupting properties according to Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 in concentration of 0,1% or higher.

SECTION 12: Ecological Information

12.1 Toxicity:

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

Endocrine disrupting properties - Ecotoxicity

Based on the available data, the product does not contain substances identified as having endocrine disrupting properties according to Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 in concentration of 0,1% or higher.

12.7 Other adverse effects:

No information

CAS-No.	Name According to EEC	<u>EC50 48hr</u>	<u>IC50 72hr</u>	LC50 96hr
28182-81-2	hexamethylene diisocyanate, oligomers	127 mg/L (EL50, 48h, Daphnia magna)	>1000 mg/L (EC50, 72h) Desmodesmus subspicatus)	² >100 mg/L (Brachydanio rerio)
108-65-6	2-methoxy-1-methylethyl-acetate	>408 mg/L (Daphnia magna)	>1000 mg/L (ErC50, Pseudokirchneriella subcapitata)	134 mg/L (Oncorhynchus mykiss)
1330-20-7	xylene	1 - 5 mg/L (Daphnia magna)	3 - 5 mg/L (Selenastrum sp.)	2 - 11 mg/L (Roccus saxatilis), 8.2 mg/L (Salmo gairdneri), 13.5 mg/L (Lepomis macrichirus), 21.0 mg/L (Pimephales promelas)
100-41-4	ethylbenzene	1.8 - 2.4 mg/L (Daphnia magna)	5.4 mg/L (Pseudokirchneriella subcapitata)	4.2 mg/L (Oncorhynchus mykissl)
822-06-0	Hexamethylene diisocyanate	No information	77.4 mg/L (ErC50, static, desmodesmus subspicatus)	8.8 mg/L (Brachydanio rerio)

SECTION 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 05 01*	
Packaging Waste Code:	15 01 10*	

SECTION 14: Transport Information

		ADR/RID	ADN	IMDG	ΙΑΤΑ
14.1	UN-number or ID number	UN1866	UN1866	UN1866	UN1866
14.2	UN proper shipping name	RESIN SOLUTION	RESIN SOLUTION	RESIN SOLUTION	RESIN SOLUTION
14.3	Transport Hazard Class(es)	3	3	3	3
14.4	Packing Group	Ш	Ш	Ш	111
14.5	Enviromental Hazards	Marine pollutant: No	Marine pollutant: No	Marine pollutant: No	Marine pollutant: No

14.6 Special precautions for user EmS-No.:

No Information F-E, S-E No Information

- 14.7 Maritime transport in bulk according to
 - **IMO** instruments

SECTION 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:	5 - 5	
Danish MAL Code - Mixture:	4 - 5	
Sweden Product Registration Number:	Not available	
Norway Product Registration Number:	P-44263	

WGK Class:	2
Covered by Directive 2012/18/EC (Seveso III):	P5c
Restrictions to product or to substances according to Annex XVII, Regulation (CE) 1907/2006:	Entry 74

Annex XIV - Annex XIV, Regulation (CE) 1907/2006 - Authorisation List:

CAS-No. Name According to EEC

Not Applicable

SVHC - Substances of very high concern (Candidate List - Art. 59 REACH):

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.

SECTION 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.
H302	Harmful if swallowed.
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.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.

Reasons for revision

This Safety Data Sheet (SDS) has been revised to meet the new EU CLP requirements. There have been both formatting and content changes based on the CLP classification (if applicable), please review each section of the SDS for specific changes. . .

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
- Joint Research Centre in Ispra, Italy
- Regulation (EC) 1272/2008 with subsequent amendments
- Regulation (EC) 1907/2006 with subsequent amendments
- Commission Regulation (EU) 2020/878
- Eu Council Decision 2000/532/EC and its Annex entitled "List of Wastes"
- Safety Data Sheet from raw material supplier
- The classification declared in sec. 2.2 is based on the calculation methods set out in Annex I and Annex II of the CLP Reg. 1272/2008 on the composition of the formula.

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/m3	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
q/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 Road
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
IMO	International Maritime Organization
Note P:	The classification as a carcinogen or mutagen need not apply; the substance contains
NULC I.	less than 0,1 % w/w benzene
Note 10:	The classification as a carcinogen by inhalation applies only to mixtures in powder
	form containing 1 % or more of titanium dioxide which is in the form of or
	incorporated in particles with aerodynamic diameter \leq 10 µm.
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For further information, please contact: Regulatory 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.

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