HUMMERVOLL INDUSTRIBELEGG

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 H220-0908

Product Name: HI EP SEALER PART B

Revision Date: 31/01/2023

Supercedes Date: 11/07/2022

Version Number: 3

UFI Code: R6N0-70SD-Y00A-9U7M

Nano Form: No

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

Hardener for 2 components coatings - Industrial use.
Advised against: others than recommended

1.3 Details of the supplier of the safety data sheet

Importer: None

Manufacturer:

Hummervoll Industribelegg A/S
Sanddalsringen 3
N-5225 Nestun
Bergen
Norway

Regulatory / Technical Information:
+47 55 92 27 00
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Datasheet Produced by: Tarka, Malgorzata - hms@carboline.com

1.4 Emergency telephone number:

CHEMTREC +1 703 5273887 (Outside US)
112 (24/7)
Croatia +3851 2348 342 (24/7 in Croatian and English)
Iceland 112 (24/7)
Malta 112 (24/7)

SECTION 2: Hazards Identification

2.1 Classification of the substance or mixture

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

HAZARD STATEMENTS

Corrosive to the respiratory tract	EUH071
Acute Toxicity, Oral, category 4	H302

Skin Irritation, category 2	H315
Skin Sensitizer, category 1	H317
Serious Eye Damage, category 1	H318
Acute Toxicity, Inhalation, category 4	H332
STOT, repeated exposure, category 2	H373
Hazardous to the aquatic environment, Chronic, category 2	H411

2.2 Label elements

Symbol(s) of Product

Signal Word

Danger

Named Chemicals on Label

salicylic acid, 2,4,6-tris(dimethylaminomethyl)phenol, benzyl alcohol, fatty acids, c18-unsatd., dimers, polymers with tall-oil fatty acids, Amines, polyethylenepoly-, triethylenetetramine fraction, methyleneoxide, polymer with benzenamine, hydrogenated

HAZARD STATEMENTS

Corrosive to the respiratory tract	EUH071	Corrosive to the respiratory tract.
Acute Toxicity, Oral, category 4	H302	Harmful if swallowed.
Skin Irritation, category 2	H315	Causes skin irritation.
Skin Sensitizer, category 1	H317	May cause an allergic skin reaction.
Serious Eye Damage, category 1	H318	Causes serious eye damage.
Acute Toxicity, Inhalation, category 4	H332	Harmful if inhaled.
STOT, repeated exposure, category 2	H373	May cause damage to organs through prolonged or repeated exposure.
Hazardous to the aquatic environment, Chronic, category 2	H411	Toxic to aquatic life with long lasting effects.

PRECAUTION PHRASES

P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/ face protection.
P301+310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
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.
P403+233	Store in a well-ventilated place. Keep container tightly closed.
P501	Dispose of contents/container to waste treatment/disposal facility in accordance with local, state, and federal regulations.

ADDITIONAL INFORMATION

ADD-16	The classification is based on available test data for the mixture.

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.	%	Classifications	SCL Value ATE Value M-Factor	
fatty acids, c18-unsatd., dimers, polymers with tall-oil fatty acids 500-191-5 68082-29-1 -	25 - <50	H315-317-318-411 Aquatic Chronic 2, Eye Dam. 1, Skin Irrit. 2, Skin Sens. 1A	**SCL:** **ATE:** **M-Factor:**	- >2 000 mg/kg (oral) -
benzyl alcohol 202-859-9 100-51-6 01-2119492630-38	10 - <25	H302-319-332 Acute Tox. 4 Inhalation, Acute Tox. 4 Oral, Eye Irrit. 2	**SCL:** **ATE:** **M-Factor:**	- 1 620 mg/ kg (oral); >2 000 mg/kg (dermal) -

methyleneoxide, polymer with benzenamine, hydrogenated 603-894-6 135108-88-2 01-2119983522-33	10 - <25	H302-314-317-373-412 Acute Tox. 4 Oral, Aquatic Chronic 3, Skin Corr. 1C, Skin Sens. 1, STOT RE 2	**SCL:** **ATE:** **M-Factor:**	- 300 mg/kg (oral) -
2,4,6-tris(dimethylaminomethyl) phenol 202-013-9 90-72-2 01-2119560597-27	2.5 - <10	H302-314-318 Acute Tox. 4 Oral, Eye Dam. 1, Skin Corr. 1C	**SCL:** **ATE:** **M-Factor:**	- 2 169 mg/kg (oral) -
salicylic acid 200-712-3 69-72-7 01-2119486984-17	2.5 - <10	H302-318-361d Acute Tox. 4 Oral, Eye Dam. 1, Repr. 2	**SCL:** **ATE:** **M-Factor:**	- 891 mg/kg (oral); >2 000 kg/kg (dermal) -
Amines, polyethylenepoly-, triethylenetetramine fraction 292-588-2 90640-67-8 01-2119487919-13	2.5 - <10	H302-312-314-317-412 Acute Tox. 4 Dermal, Acute Tox. 4 Oral, Aquatic Chronic 3, Corr. Resp., Skin Corr. 1B, Skin Sens. 1	**SCL:** **ATE:** **M-Factor:**	- 1 716 mg/kg (oral); 1 465 mg/kg (dermal) -

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: 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

Irritating to skin. May cause sensitization by skin contact. Danger of serious damage to health by prolonged exposure. Harmful by inhalation and if swallowed. 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.

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.
Use of water may produce very toxic aquatic solutions.

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.

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

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 8 and 13 for further information.

SECTION 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. Persons with a history of 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. 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: 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. Storage of corrosive material. Store in corrosive resistant stainless steel container with a resistant inliner. Store away from: oxidising materials, acids, and alkalis. Do not store in iron or other reactive metal containers.

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
(EU)

Name	CAS-No.	LTEL ppm	STEL ppm	STEL mg/m3	LTEL mg/m3
fatty acids, c18-unsatd., dimers, polymers with tall-oil fatty acids	68082-29-1				
benzyl alcohol	100-51-6				
methyleneoxide, polymer with benzenamine, hydrogenated	135108-88-2				
2,4,6-tris(dimethylaminomethyl)phenol	90-72-2				
salicylic acid	69-72-7				
Amines, polyethylenepoly-, triethylenetetramine fraction	90640-67-8				

Name	CAS-No.	OEL Note
fatty acids, c18-unsatd., dimers, polymers with tall-oil fatty acids	68082-29-1	
benzyl alcohol	100-51-6	
methyleneoxide, polymer with benzenamine, hydrogenated	135108-88-2	
2,4,6-tris(dimethylaminomethyl)phenol	90-72-2	
salicylic acid	69-72-7	
Amines, polyethylenepoly-, triethylenetetramine fraction	90640-67-8	

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:

fatty acids, c18-unsatd., dimers, polymers with tall-oil fatty acids

EC No.: 500-191-5

CAS-No.: 68082-29-1

DNELs - Derived no effect level

	Workers				Consumers			
Route of Exposure	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							0.56 mg/kg bw/ day
Inhalation				3.9 mg/m3				0.97 mg/m3
Dermal				1.1 mg/kg bw/ day				0.56 mg/kg bw/ day

PNEC's - Predicted no effect concentration

Environmental protection target	PNEC
Fresh water	0.004 mg/L
Fresh water sediments	434.02 mg/kg
Marine water	
Marine sediments	43.4 mg/kg
Food chain	
Microorganisms in sewage treatment	3.84 mg/L
soil (agricultural)	86.78 mg/kg
Air	

Chemical Name:

benzyl alcohol

EC No.: 202-859-9

CAS-No.: 100-51-6

DNELs - Derived no effect level

	Workers				Consumers			
Route of Exposure	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					20 mg/kg bw/ day	5 mg/kg bw/ day	4 mg/kg bw/day
Inhalation		110 mg/m³		22 mg/m3		27 mg/m3		5.4 mg/m3
Dermal		40 mg/kg bw/ day		8 mg/kg bw/day		20 mg/kg bw/ day		4 mg/kg bw/day

PNEC's - Predicted no effect concentration

Environmental protection target	PNEC
Fresh water	1 mg/L
Fresh water sediments	5.27 mg/kg wwt
Marine water	0.1 mg/L
Marine sediments	0.527 mg/kg wwt
Food chain	
Microorganisms in sewage treatment	39 mg/L
soil (agricultural)	0.456 mg/kg wwt
Air	

Chemical Name:

methyleneoxide, polymer with benzenamine, hydrogenated

EC No.: 603-894-6

CAS-No.: 135108-88-2

DNELs - Derived no effect level

	Workers				Consumers			
Route of Exposure	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							
Inhalation		2 mg/m³		200 µg/m³				
Dermal		6 mg/kg bw/ day		2 mg/kg bw/day				

PNEC's - Predicted no effect concentration

Environmental protection target	PNEC
Fresh water	15 µg/L
Fresh water sediments	15 mg/kg sediment dw
Marine water	1.5 µg/L
Marine sediments	1.5 mg/kg sediment dw
Food chain	
Microorganisms in sewage treatment	1.9 mg/L
soil (agricultural)	1.8 mg/kg soil dw
Air	

Chemical Name:

2,4,6-tris(dimethylaminomethyl)phenol

EC No.: 202-013-9

CAS-No.: 90-72-2

DNELs - Derived no effect level

	Workers				Consumers			
Route of Exposure	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					0.13 mg/m3		0.075 mg/kg
Inhalation		2.1 mg/m3	4.9 mg/m3	0.53 mg/m3		0.075 mg/kg		0.13 mg/m3
Dermal		0.6 mg/kg		0.150 mg/kg				0.075 mg/kg

PNEC's - Predicted no effect concentration

Environmental protection target	PNEC
Fresh water	0.046 mg/l
Fresh water sediments	
Marine water	0.005 mg/l
Marine sediments	
Food chain	
Microorganisms in sewage treatment	0.2 mg/l
soil (agricultural)	0.025 mg/kg
Air	

Chemical Name:
salicylic acid

EC No.: 200-712-3

CAS-No.: 69-72-7

DNELs - Derived no effect level

	Workers				Consumers			
Route of Exposure	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					4 mg/kg bw/ day	0.0002 mg/L	1 mg/kg bw/day
Inhalation			5 mg/m3	5 mg/m3				4 mg/m3
Dermal				2.3 mg/kg bw/ day				1 mg/kg bw/day

PNEC's - Predicted no effect concentration

Environmental protection target	PNEC
Fresh water	0.20 mg/L
Fresh water sediments	1.42 mg/kg dw
Marine water	0.020 mg/L
Marine sediments	0.142 mg/kg dw
Food chain	
Microorganisms in sewage treatment	162 mg/L
soil (agricultural)	0.166 mg/kg dw
Air	

Chemical Name:
Amines, polyethylenepoly-, triethylenetetramine fraction

EC No.: 292-588-2

CAS-No.: 90640-67-8

DNELs - Derived no effect level

	Workers				Consumers			
Route of Exposure	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							0.14 mg/kg
Inhalation				0.54 mg/m3				0.096 mg/m3
Dermal								

PNEC's - Predicted no effect concentration

Environmental protection target	PNEC
Fresh water	0.027 mg/L
Fresh water sediments	8.572 mg/kg
Marine water	0.003 mg/L
Marine sediments	0.857 mg/kg
Food chain	
Microorganisms in sewage treatment	
soil (agricultural)	
Air	

8.2 Exposure controls

Personal Protection

RESPIRATORY PROTECTION: 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). When working in confined or poorly ventilated spaces, a battery powered assisted air-fed mask must be used.

EYE PROTECTION: 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.

SECTION 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Colour	Amber
Physical State	Liquid
Odor	Ammoniacal
Odor threshold	Not determined
pH	10
Melting point / freezing point (°C)	Not determined
Boiling point or initial boiling point and boiling range (°C)	177
Flash Point, (°C)	117
Evaporation rate	Not determined
Flammability (solid, gas)	Not determined
Lower and upper explosive limit	Not determined
Vapour Pressure	Not determined
Relative vapour density	Not determined
Density and/or relative density	0.96 - 1.06
Solubility in / Miscibility with water	Negligible
Partition coefficient: n-octanol/water	Not determined
Auto-ignition temperature (°C)	Not determined
Decomposition temperature (°C)	Not determined
Kinematic viscosity	Not determined
Particle characteristics	Not applicable to liquids

9.2 Other information

VOC Content g/l:	0
Specific Gravity (g/cm3)	1.01

SECTION 10: Stability and Reactivity

10.1 Reactivity
No reactivity hazards known under recommended storage and use conditions.

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
No reactivity hazards known under recommended storage and use conditions.

10.4 Conditions to avoid
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
Ammonia gas may be liberated at high temperatures. In case of fire or hot work operations, hazardous decomposition products may be formed such as:Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), aliphatic amines,

aldehydes.

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 skin.

Corrosivity: Causes serious eye damage.

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: No information available.

STOT-repeated exposure: Central nervous system depression.

Aspiration hazard: Swallowing concentrated chemical may cause severe internal injury

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
68082-29-1	fatty acids, c18-unsatd., dimers, polymers with tall-oil fatty acids	>2000 mg/kg (oral-rat)	No information	No information	No information	No information
100-51-6	benzyl alcohol	1620 mg/kg rat	>2000 mg/kg, rabbit	No information	No information	>4.178 mg/L (4h/ rat, mist)
135108-88-2	methyleneoxide, polymer with benzenamine, hydrogenated	367 mg/kg (Oral, rat)	>2000 mg/kg (Dermal, rabbit)	No information	No information	No information
90-72-2	2,4,6-tris (dimethylaminomethyl)phenol	2169 mg/kg (oral, rat)	No information	No information	No information	No information
69-72-7	salicylic acid	891 mg/kg (oral-rat)	>2000 mg/kg (dermal-rat)	900 mg/m3 (1 hr-inh-rat)	No information	No information
90640-67-8	Amines, polyethylenepoly-, triethylenetetramine fraction	1716 mg/kg	1465 mg/kg	No information	No Information	No Information

Additional Information:

Corrosive - causes irreversible eye damage. Chronic exposure causes drying effect on the skin and eczema. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. 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.

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): 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 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	EC50 48hr	IC50 72hr	LC50 96hr
68082-29-1	fatty acids, c18-unsatd., dimers, polymers with tall-oil fatty acids	7.07 mg/L (Daphnia magna)	4.34 mg/L (Pseudokirchneriella supcapitata)	7.07 mg/L (zebra fish)
100-51-6	benzyl alcohol	230 mg/L (Daphnia Magna)	770 mg/L (EgC50, Selenastrum capricornutum)	10 mg/L (Lepomis macrochirus)
135108-88-2	methyleneoxide, polymer with benzenamine, hydrogenated	15.4 mg/L (EC50, 48h, Daphnia magna)	140 - 200 mg/L (EC50, 72h, Algae)	46 - 100 mg/L (LC50, 96h, Leuciscus idtrus)
90-72-2	2,4,6-tris(dimethylaminomethyl)phenol	718 mg/L (EC50, 96h, Palaeomonetes vulgaris)	84 mg/L (EC50, 72h, Desmodesmus subspicatus)	175 mg/L (LC50, 96h, Cyprinus carpio)
69-72-7	salicylic acid	870 mg/L (Daphnia magna)	>100 mg/L (EC50, Desmodesmus subspicatus)	1370 mg/L (Pimephales promelas)
90640-67-8	Amines, polyethylenepoly-, triethylenetetramine fraction	31.1 mg/L (Daphnia magna)	20 mg/L (Pseudokirchneriella subcapitat)	330 mg/L (Pimephales promelas)

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 01 11*

Packaging Waste Code: 15 01 10*

SECTION 14: Transport Information

	ADR/RID	ADN	IMDG	IATA
14.1 UN-number or ID number	UN3082	UN3082	UN3082	UN3082
14.2 UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (polyamide)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (polyamide)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (polyamide)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (polyamide)
14.3 Transport Hazard Class(es)	9	9	9	9
14.4 Packing Group	III	III	III	III
14.5 Enviromental Hazards	Marine pollutant: Yes (Polyamide)	Marine pollutant: Yes (Polyamide)	Marine pollutant: Yes (Polyamide)	Marine pollutant: Yes (Polyamide)

14.6 Special precautions for user Not applicable

EmS-No.: F-A, S-F

14.7 Maritime transport in bulk according to IMO instruments Not applicable

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: Not available

Danish MAL Code - Mixture: Not available

Sweden Product Registration Number: Not available

Norway Product Registration Number: P-70933

WGK Class: 2

Covered by Directive 2012/18/EC (Seveso III): E2

Restrictions to product or to substances according to Annex XVII, Regulation (CE) 1907/2006: Entry 3

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:

H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
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.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.
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 of the product is based on the calculation methods set out in Annex I and Annex II of the CLP Reg. 1272/2008 on the exact 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
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
IMO	International Maritime Organization
Note P:	The classification as a carcinogen or mutagen need not apply; the substance contains 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 ≤ 10 µm.

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.