



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	H240	Revision Date:	01/02/2023
Product Name:	HI EP FLEX TOPCOAT PART A	Supersedes Date:	07/01/2022
		Version Number:	2

UFI Code: 4MN0-S07D-G00T-KJ4X

Nano Form: No

1.2 Relevant identified uses of the substance or mixture and uses advised against
Base component of 2 components coating - Industrial use.
Advised against: others than recommended

1.3 Details of the supplier of the safety data sheet

Importer: None

Manufacturer: Hummervoll Industriblegg A/S
Sanddalsringen 3
N-5225 Nestun
Bergen
Norway

Regulatory / Technical Information:
+47 55 92 27 00
+47 55 92 27 10 (Fax)
<http://www.hummervoll.no>

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, Labelling & Packaging Regulation (EC) 1272/2008

HAZARD STATEMENTS

Skin Irritation, category 2 H315

Skin Sensitizer, category 1 H317

Hazardous Ingredients

<u>Name According to EEC</u> <u>EINECS No.</u> <u>CAS-No.</u> <u>REACH Reg No.</u>	<u>%</u>	<u>Classifications</u>	<u>SCL Value</u> <u>ATE Value</u> <u>M-Factor</u>
dolomite 240-440-2 16389-88-1 -	25 - <50		SCL: - ATE: - M-Factor: -
2,2-bis-[4-(2,3-epoxipropoxy) phenyl]propane 216-823-5 1675-54-3 01-2119456619-26	25 - <50	H315-317-319-411 Aquatic Chronic 2, Eye Irrit. 2, Skin Irrit. 2, Skin Sens. 1	SCL: H319 ≥ 5 H315 ≥ 5 ATE: - M-Factor: -
Epoxy Phenol Novolac Resin 500-006-8 9003-36-5 01-2119454392-40	2.5 - <10	H315-317-411 Aquatic Chronic 2, Skin Irrit. 2, Skin Sens. 1	SCL: - ATE: - M-Factor: -
Oxirane, mono[(C12-14-alkyloxy) methyl] derivs. 271-846-8 68609-97-2 01-2119485289-22	2.5 - <10	H315-317 Skin Irrit. 2, Skin Sens. 1	SCL: - ATE: - M-Factor: -

Remarks: CAS No. 9003-36-5 identified as EC No. 701-263-0 under REACH Registration

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

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

Use only in area provided with appropriate exhaust ventilation. Wear personal protective equipment. 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). People handling polyurethane or epoxy products must have received special training according to guidelines from the National Occupational Health and Safety Board.

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. 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 (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>
dolomite	16389-88-1				
2,2-bis-[4-(2,3-epoxipropoxy)phenyl]propane	1675-54-3				
Epoxy Phenol Novolac Resin	9003-36-5				
Oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	68609-97-2				

<u>Name</u>	<u>CAS-No.</u>	<u>OEL Note</u>
dolomite	16389-88-1	
2,2-bis-[4-(2,3-epoxipropoxy)phenyl]propane	1675-54-3	
Epoxy Phenol Novolac Resin	9003-36-5	
Oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	68609-97-2	

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.

Chemical Name:

Oxirane, mono[(C12-14-alkyloxy)methyl] derivs.

EC No.:

271-846-8

CAS-No.:

68609-97-2

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					
Inhalation				3.6 mg/m ³				0.5 mg/kg
Dermal				1 mg/kg				0.87 mg/m ³ 0.5 mg/kg

PNEC's - Predicted no effect concentration

Environmental protection target
 Fresh water
 Fresh water sediments
 Marine water
 Marine sediments
 Food chain
 Microorganisms in sewage treatment
 soil (agricultural)
 Air

PNEC
 0.0072 mg/l
 307.16 mg/kg
 0.001 mg/L
 30.72 mg/kg

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: 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	Misc. Colours
Physical State	LIQUID
Odor	Characteristic
Odor threshold	Not determined
pH	Not determined
Melting point / freezing point (°C)	Not determined
Boiling point or initial boiling point and boiling range (°C)	>200
Flash Point, (°C)	>150
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

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
1675-54-3	2,2-bis-[4-(2,3-epoxipropoxy)phenyl]propane	>2000 mg/kg (oral-rat)	>2000 mg/kg (dermal-rabbit)	No information	No information	No information
9003-36-5	Epoxy Phenol Novolac Resin	>5000 mg/kg (rat, oral)	>2000 mg/kg (rat, dermal)	No information	No information	No information
68609-97-2	Oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	17100 mg/kg, oral, rat	4500 mg/kg, dermal, rabbit	No information	No information	No information

Additional Information:

Chronic exposure causes drying effect on the skin and eczema. Repeated skin contact leads to irritation and to sensitisation, possible with cross-sensitisation to other epoxies. The product is irritating to the eyes and may cause sensitisation to the respiratory system. Swallowing concentrated chemical may cause severe internal injury. 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.

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. (BISPHENOL A EPOXY RESIN)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BISPHENOL A EPOXY RESIN)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BISPHENOL A EPOXY RESIN)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BISPHENOL A EPOXY RESIN)
14.3 Transport Hazard Class(es)	9	9	9	9
14.4 Packing Group	III	III	III	III
14.5 Environmental Hazards	Marine pollutant: Yes (Bisphenol A epoxy resin)	Marine pollutant: Yes (Bisphenol A epoxy resin)	Marine pollutant: Yes (Bisphenol A epoxy resin)	Marine pollutant: Yes (Bisphenol A epoxy resin)

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-70938

WGK Class: 3

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

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 $\leq 10 \mu\text{m}$.

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.