

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

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

1.1 Product Identifier H225 Revision Date: 13/07/2020

Product Name: HI EP DECK COAT PART A Supersedes Date: 22/11/2019

Version Number: 6

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.

1.3 Details of the supplier of the safety data sheet

Importer: None

Manufacturer: Hummervoll Industribelegg A/S

Sanddalsringen 3 N-5225 NESTTUN

Norway

Regulatory / Technical Information:

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1.4 Emergency telephone number: CHEMTREC +1 703 5273887 (Outside US)

SECTION 2: Hazard Identification

2.1 Classification of the substance or mixture

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

HAZARD STATEMENTS

Other EU extensions EUH205
Skin Irritation, category 2 H315
Skin Sensitizer, category 1 H317
Eye Irritation, category 2 H319
Hazardous to the aquatic environment, Chronic, category 2 H411

2.2 Label elements

Symbol(s) of Product





Signal Word

Warning

Named Chemicals on Label

bis-[4-(2,3-epoxipropoxi)phenyl]propane, Epoxy resin based on bisphenol F, Oxirane, mono[(C12-14-alkyloxy)methyl] derivs.

HAZARD STATEMENTS

Other EU extensions	EUH205	Contains epoxy constituents. May produce an allergic reaction.
Skin Irritation, category 2	H315	Causes skin irritation.
Skin Sensitizer, category 1	H317	May cause an allergic skin reaction.
Eye Irritation, category 2	H319	Causes serious eye irritation.
Hazardous to the aquatic environment, Chronic, category 2 PRECAUTION PHRASES	H411	Toxic to aquatic life with long lasting effects.
	P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
	P273	Avoid release to the environment.
	P280	Wear protective gloves/protective clothing/eye protection/ face protection.
	P302+352	IF ON SKIN: Wash with plenty of soap and water.
	P333+313	If skin irritation or rash occurs: Get medical advice/attention.

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.

SECTION 3: Composition/Information On Ingredients

3.2 Mixtures

Hazardous Ingredients

CAS-No.	EINEC No.	Name According to EEC	<u>%</u>
16389-88-1	240-440-2	dolomite	50 - <75
1675-54-3	216-823-5	bis-[4-(2,3-epoxipropoxi)phenyl]propane	25 - <50
9003-36-5	500-006-8	Epoxy resin based on bisphenol F	2.5 - <10
68609-97-2	271-846-8	Oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	2.5 - <10
13463-67-7	236-675-5	titanium dioxide	2.5 - <10

CAS-No.	REACH Reg No.	CLP Symbols	CLP Hazard Statements	M-Factors
16389-88-1				
1675-54-3	01-2119456619-26	GHS07-GHS09	H315-317-319-411	
9003-36-5	01-2119454392-40	GHS07-GHS09	H315-317-411	
68609-97-2	01-2119485289-22	GHS07	H315-317	
13463-67-7	01-2119489379-17			

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.

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. Provide fresh air, rest and warmth. Call a physician immediately. Give oxygen or artificial respiration if needed. When risk of unconsciousness, place and transport the victim in secured recovery position. 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: If vomiting occurs spontaneously: Keep head below hips to prevent aspiration of stomach vomit into lungs. Provide fresh air, rest and warmth. Do not induce vomiting. Get immediate medical attention. Never give anything by mouth to an unconscious person.

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. 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: 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).

5.3 Advice for firefighters

In the event of fire, wear self-contained breathing apparatus. Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

SECTION 6: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Use personal protective equipment.

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

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

SECTION 7: Handling and Storage

7.1 Precautions for safe handling

Electrical equipment should be protected to the appropriate standard. 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 away from: oxidising materials, acids, and alkalis. Store in upright position only.

7.3 Specific end use(s)

No specific advice for end use available.

SECTION 8: Exposure Controls/Personal Protection

8.1 Control parameters

Ingredients with Occupational Exposure Limits (EU)

<u>Name</u>	CAS-No.		LTEL ppm	STEL ppm	STEL mg/m3	LTEL mg/m3
dolomite	16389-88-1					
bis-[4-(2,3-epoxipropoxi)phenyl]propane	1675-54-3					
Epoxy resin based on bisphenol F	9003-36-5					
Oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	68609-97-2					
titanium dioxide	13463-67-7					
Name	CAS-No.	OEL Note				
dolomite	16389-88-1					
bis-[4-(2,3-epoxipropoxi)phenyl]propane	1675-54-3					
Epoxy resin based on bisphenol F	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.

8.2 Exposure controls

Personal Protection

RESPIRATORY PROTECTION: Wear a self-contained breathing apparatus or full-face airline respirator during spraying operations and long-term exposure. When working in confined or poorly ventilated spaces, a self-contained breathing apparatus or full-face airline respirator 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.

Chemical Name:

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

EC No.: CAS-No.: 271-846-8 68609-97-2

DNELs - Derived no effect level

	Workers					Con	sumers	
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	ation							
Dermal								

PNEC's - Predicted no effect concentration

Environmental protection target	PNEC
Fresh water	0.0072 mg/l
Fresh water sediments	66.77 mg/kg dw
Marine water	0.00072 mg/l
Marine sediments	6.677 mg/kg dw
Food chain	
Microorganisms in sewage treatment	
soil (agricultural)	
Air	

Chemical Name:

titanium dioxide

EC No.: CAS-No.: 236-675-5 13463-67-7

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						700 mg/kg/ bw/	
								day	
Inhalation			5 mg/m³				5 mg/m³		
Dermal				·					

PNEC's - Predicted no effect concentration

Environmental protection target	PNEC
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	

SECTION 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance: Misc. colours

Physical State Liquid

Odor Characteristic
Odor threshold Not determined
pH Not determined

Melting point / freezing point (°C) Not determined

Boiling point/range (°C) >200

Flash Point, (°C) >130

Evaporation rate Not determined Flammability (solid, gas) Not determined

Upper/lower flammability or explosive

limits

Not determined

Not determined

Vapour Pressure

Vapour density

Not determined

Solubility in / Miscibility with water

Partition coefficient: n-octanol/water

Not determined

Auto-ignition temperature (°C)

Not determined

Viscosity

Not determined

Not determined

Not determined

Not determined

Not determined

9.2 Other information

Oxidising properties

VOC Content g/l: 12.00

Specific Gravity (g/cm3) 1.66

SECTION 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.

10.3 Possibility of hazardous reactions

No Information

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

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 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: Irritating to eyes and skin. Vapour/spray mist may irritate respiratory system and lungs.

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: 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:

<u>C</u>	CAS-No.	Name According to EEC	Oral LD50	Dermal LD50	Vapor LC50	Gas LC50	Dust/Mist LC50
	1675-54-3	bis-[4-(2,3-epoxipropoxi) phenyl]propane	>2000 mg/kg (oral-rat)	>2000 mg/kg (dermal-rabbit)	No information	No information	No information
	9003-36-5	Epoxy resin based on bisphenol F	>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
	13463-67-7	titanium dioxide	>5000 mg/kg (oral-rat)	10000 mg/kg	No information	No information	>6.82 mg/L (inh-rat-4h)

Additional Information:

Chronic exposure causes drying effect on the skin and eczema. 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. Repeated skin contact leads to irritation and to sensitisation, possible with cross-sensitisation to other epoxies. 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.

SECTION 12: Ecological Information

12.1 Toxicity:

EC50 48hr (Daphnia):

IC50 72hr (Algae):

LC50 96hr (fish):

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

assessment:

12.6 Other adverse effects: No information available on the product itself as the product is not tested.

CAS-No.	Name According to EEC	EC50 48hr	IC50 72hr	LC50 96hr
1675-54-3	bis-[4-(2,3-epoxipropoxi)phenyl]propane	2.1 mg/L (daphnia)	>11 mg/L (EC50, algae)	1.3 mg/L (fish)
9003-36-5	Epoxy resin based on bisphenol F	1.6 mg/l (Daphnia)	1.8 mg/l (algae, EC50 static)	0.55 mg/l (fish)
68609-97-2	Oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	No information		> 5.000 mg/l (Oncorhynchus mykiss, CL50, 96h static),

13463-67-7 titanium dioxide

>1000 mg/L (LC50, statisk, Daphnia magna, OECD202) >100 mg/L (EC50, statisk, Pseudokirchnerella subcapitata, OECD201)

>1000 mg/L (LC50, statisk, Pimephales promelas, EPA-540/9-85-006)

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

14.1 UN number UN3082

14.2 UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(BISPHENOL A EPOXY RESIN)

Technical name Bisphenol A epoxy resin

14.3 Transport hazard class(es)

Subsidiary shipping hazard Not applicable

14.4 Packing group

14.5 Environmental hazardsMarine pollutant: Yes (Bisphenol A epoxy resin)

14.6 Special precautions for user Not applicableEmS-No.: F-A, S-F

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code

Not applicable

SECTION 15: Regulatory Information

15.1 Safety, health and environmental regulations/legislation 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-70934

Germany 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

Annex XIV - Authorisation List:

CAS-No. Name According to EEC

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.

SECTION 16: Other Information

Text for CLP Hazard Statements shown in Section 3 describing each ingredient:

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.

H411 Toxic to aquatic life with long lasting effects.

Reasons for revision

Changes have been made to Section 15 of the Safety Data Sheet (SDS). Please refer to the Regulatory Information in Section 15 of this 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; European Union Commission Regulation No. 1907/2006 on REACH as amended within Commission Regulation (EU) 2015/830;

European Union (EC) Regulation No. 1272/2008 on the classification, labelling and packaging of substances and mixtures (CLP Regulation) and subsequent technical progress adaptations (ATP); 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/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 RTI Respiratory Tract Irritation

NE Narcotic Effects

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.