SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier	
Product name	: DMD ANTI-SLIP EPOXY FLOOR COATING HEAVY DUTY FINE, MEDIUM & COARSE GRIT (GREY, LIGHT GREY)
Product code	: 11.221.301, 11.221.901, 11.222.301, 11.222.901, 11.223.301, 11.223.901

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

Material uses	: Paint or paint related material.
	: Industrial use only.

1.3 Details of the supplier of the safety data sheet

DMD GmbH Gutedelstraße 38-42 79418 Schliengen Deutschland/Germany +49 (0) 7635 / 827140

e-mail address of person : info@dmd-gmbh.de *responsible for this SDS*

1.4 Emergency telephone number

National advisory body/Poison Centre

Telephone number : 112 (general public) / +49(0)761 19240 (poison centre)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to Regulation (EC) No. 1272/2008

[CLP/GHS] Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411 The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended. See Section 16 for the full text of the H statements declared above. See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Hazard pictograms



Signal word

: Warning

dme

SECTION 2: Hazards identification

SECTION 2: Hazards Ide	fication	
Hazard statements	Causes serious eye irritation.	
	Causes skin irritation.	
	May cause an allergic skin reaction.	
	Toxic to aquatic life with long lasting effects.	
Precautionary statements		
Prevention	Wear protective gloves. Wear eye or face protection. Avoid release to the environment.	
Response	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
Storage	Not applicable.	
Disposal	Dispose of contents and container in accordance with all local, regional, nationa and international regulations.	al
Hazardous ingredients	Epoxy Polymer Phenol-Formaldehyde Polymer Alkyl Glycidyl Ether 4-Morpholinecarboxaldehyde	
Supplemental label elements	Contains epoxy constituents. May produce an allergic reaction. FOR INDUSTRI/ USE ONLY	AL
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles Special packaging requirem	Not applicable.	
	<u>-</u>	
Not applicable.		

2.3 Other hazards

Other hazards which do : None known. not result in classification

The mixture may be a skin sensitiser. It may also be a skin irritant and repeated contact may increase this effect.

SECTION 3: Composition/information on ingredients

3.2 Mixture

Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Тур
Epoxy Polymer	EC: 500-033-5 CAS: 25068-38-6 Index: 603-074-00-8	≥10 - ≤25	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411	[1]
Phenol-Formaldehyde Polymer	EC: 500-006-8 CAS: 9003-36-5	≥10 - ≤25	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 2, H411	[1]
Phenylmethanol	REACH #: 01-2119492630-38 EC: 202-859-9 CAS: 100-51-6 Index: 603-057-00-5	≤10	Acute Tox. 4, H302 Acute Tox. 4, H332	[1]
Alkyl Glycidyl Ether	EC: 271-846-8 CAS: 68609-97-2 Index: 603-103-00-4	≤5	Skin Irrit. 2, H315 Skin Sens. 1, H317	[1]
4-Morpholinecarboxaldehyde	REACH #: 01-2119987993-12 EC: 224-518-3	≤0.3	Skin Sens. 1, H317	[1]

SECTION 3: Composition/information on ingredients

CAS: 4394-85-8

See Section 16 for the full text of the H statements declared above.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs or vPvBs or have been assigned a workplace exposure limit and hence require reporting in this section.

<u>Type</u>

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII

[4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

[5] Substance of equivalent concern

[6] Additional disclosure due to company policy

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures

4.1 Description of first aid measures

General	: In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and seek medical advice.
Eye contact	: Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.
Inhalation	: Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
Skin contact	: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.
Ingestion	: If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.
Protection of first-aiders	: 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

There are no data available on the mixture itself. Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]. See Sections 2 and 3 for details.

Exposure to component solvent vapour concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.

Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

Ingestion may cause nausea, diarrhea and vomiting.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Based on the properties of the epoxy constituent(s) and considering toxicological data on similar mixtures, this mixture may be a skin sensitiser and an irritant. It contains low molecular weight epoxy constituents which are irritating to eyes, mucous membrane and skin. Repeated skin contact may lead to irritation and to sensitisation, possibly with cross-sensitisation to other epoxies. Skin contact with the mixture and exposure to spray mist and vapour should be avoided.

Contains reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700),

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DMD ANTI-SLIP EPOXY FLOOR COATING HEAVY DUTY FINE, MEDIUM & COARSE GRIT EPOXY RESIN (BASE)

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SECTION 4: First aid measures

oxirane, mono[(C12-14-alkyloxy)methyl] derivs.. May produce an allergic reaction.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: No specific treatment.

See toxicological information (Section 11)

SECTION 5: Firefighting	neasures	
5.1 Extinguishing media		
Suitable extinguishing media	Recommended: alcohol-resistant foam, carbon dioxide, powders.	
Unsuitable extinguishing media	Do not use water jet.	
5.2 Special hazards arising fr	n the substance or mixture	
Hazards from the substance or mixture	Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.	
Hazardous combustion products	Decomposition products may include the following materials: carbon monoxide carbon dioxide, smoke, oxides of nitrogen.	9,
5.3 Advice for firefighters		
Special protective actions for fire-fighters	Cool closed containers exposed to fire with water. Do not release runoff from fir drains or watercourses.	re to
Special protective equipment for fire-fighters	Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.	
SECTION 6: Accidental	lease measures	
6.1 Personal precautions, pro	ective equipment and emergency procedures	
For non-emergency personnel	Exclude sources of ignition and ventilate the area. Avoid breathing vapour or mist. Refer to protective measures listed in sections 7 and 8.	
	Keep unnecessary and unprotected personnel from entering.	
For emergency responders	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".	
6.2 Environmental precautions	Do not allow to enter drains or watercourses. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.	
6.3 Methods and material for containment and cleaning up	Contain and collect spillage with non-combustible, absorbent material e.g. sand earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Preferably clean with a detergent. Avoid using solvents.	d,
6 1 Reference to	See Section 1 for emergency contact information	

 6.4 Reference to other sections
 See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

DMD ANTI-SLIP EPOXY FLOOR COATING HEAVY DUTY FINE, MEDIUM & COARSE GRIT EPOXY RESIN (BASE)

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SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling	 Prevent the creation of flammable or explosive concentrations of vapours in air and avoid vapour concentrations higher than the occupational exposure limits. In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard. Mixture may charge electrostatically: always use earthing leads when transferring from one container to another. Operators should wear antistatic footwear and clothing and floors should be of the conducting type. Keep away from heat, sparks and flame. No sparking tools should be used. Avoid contact with skin and eyes. Avoid the inhalation of dust, particulates, spray or mist arising from the application of this mixture. Avoid inhalation of dust from sanding. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Put on appropriate personal protective equipment (see Section 8). Never use pressure to empty. Container is not a pressure vessel. Always keep in containers made from the same material as the original one. Comply with the health and safety at work laws. Do not allow to enter drains or watercourses. Information on fire and explosion protection Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air. When operators, whether spraying or not, have to work inside the spray booth, ventilation is unlikely to be sufficient to control particulates and solvent vapour in all cases. In such circumstances they should wear a compressed air-fed respirator during the spraying process and until such time as the particulates and solvent vapour in particulates and solvent vapour in all cases.
7.2 Conditions for safe storage, including any incompatibilities	 Store in accordance with local regulations. Notes on joint storage Keep away from: oxidising agents, strong alkalis, strong acids. Additional information on storage conditions Observe label precautions. Store in a dry, cool and well-ventilated area. Keep away from heat and direct sunlight. Keep away from sources of ignition. No smoking. Prevent unauthorised access. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Contaminated absorbent material may pose the same hazard as the spilt product.
7.3 Specific end use(s)	
Recommendations	: Not available.
Industrial sector	: Not available.
specific solutions	

Good housekeeping standards, regular safe removal of waste materials and regular maintenance of spray booth filters will minimise the risks of spontaneous combustion and other fire hazards.

Before use of this material please refer to the Exposure Scenario(s) if attached for the specific end use, control measures and additional PPE considerations.

DMD ANTI-SLIP EPOXY FLOOR COATING HEAVY DUTY FINE, MEDIUM & COARSE GRIT EPOXY RESIN (BASE)

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SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

8.1 Control parameters

Occupational exposure limits

No exposure limit value known.

Recommended monitoring procedures	: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
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: Regular monitoring of all work areas should be carried out at all times, including areas that may not be equally ventilated.

DNELs/DMELs

No DNELs/DMELs available.

PNECs

No PNECs available

8.2 Exposure controls	
Appropriate engineering controls	achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapours below the OEL, suitable respiratory protection must be worn.
	 Users are advised to consider national Occupational Exposure Limits or other equivalent values.
Individual protection mea	asures
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: Use safety eyewear designed to protect against splash of liquids.
Skin protection	
Hand protection	: Wear suitable gloves tested to EN374.
Gloves	 Gloves for term exposure/splash protection (less than 10 min):Nitrile>0.12 mm Gloves for splash protection need to be changed immediately when in contact with chemicals. Gloves for repeated or prolonged exposure (breakthrough time > 240 min.) When the hazardous ingredients in Section 3 contain any of the following: Aromatic solvents (Xylene, Toluene) or Aliphatic solvents or Mineral Oil use: Polyvinyl
	alcohol (PVA) gloves 0.2-0.3 mm Otherwise use: Butyl gloves >0.3 mm For long term exposure or spills (breakthrough time >480 min.): Use PE laminated gloves as under gloves
	Due to many conditions (e.g. temperature, abrasion) the practical usage of a chemical protective glove in practice may be much shorter than the permeation time determined through testing. The recommendation for the type or types of glove to usewhen handling this product
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SECTION 8: Exposure controls/personal protection

	is based on information from the following source: Solvent resin manufacturers and European Solvents Industry Group (ESIG).
	 There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals. The breakthrough time must be greater than the end use time of the product. The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed. Gloves should be replaced regularly and if there is any sign of damage to the glove material. Always ensure that gloves are free from defects and that they are stored and used correctly. The performance or effectiveness of the glove may be reduced by physical/chemical damage and poor maintenance.
	Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred.
	The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.
Body protection	: Personnel should wear antistatic clothing made of natural fibres or of high- temperature-resistant synthetic fibres.
	 Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection	 Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Recommended: A2P2 (EN14387). Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
Environmental exposure	: Do not allow to enter drains or watercourses.

controls

Before use of this material please refer to the Exposure Scenario(s) if attached for the specific end use, control measures and additional PPE considerations. The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation. The provisions of the national health and safety at work regulations apply to the use of this product at work.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	
Physical state	: Liquid.
Colour	: Not available.
Odour	: Solvent.
Odour threshold	: Not Available (Not Tested).
pН	: Not relevant/applicable due to nature of the product.
Melting point/freezing point	: Not relevant/applicable due to nature of the product.
Initial boiling point and boiling range	: 202°C
Flash point	: Closed cup: 499°C [Pensky-Martens Closed Cup]
Evaporation rate	: Not relevant/applicable due to nature of the product.
Flammability (solid, gas)	: Not relevant/applicable due to nature of the product.
Upper/lower flammability or explosive limits	: LEL: 1.3% (Phenylmethanol) UEL: 13% (Phenylmethanol)

SECTION 9: Physical and chemical properties

Vapour pressure	: 0.02 kPa [at 20°C]
Vapour density	: 3.72 [Air = 1]
Relative density	: 1.61
Solubility(ies)	: Not relevant/applicable due to nature of the product.
Partition coefficient: n-octanol/ water	 Not relevant/applicable due to nature of the product.
Auto-ignition temperature	: Not relevant/applicable due to nature of the product.
Decomposition temperature	: Not relevant/applicable due to nature of the product.
Viscosity Explosive properties	 Kinematic (40°C): >0.205 cm²/s Under normal conditions of storage and use, hazardous reactions will not occur.
Oxidising properties	: Under normal conditions of storage and use, hazardous reactions will not occur.

SECTION 10: Stability a	nd reactivity
10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	: Stable under recommended storage and handling conditions (see Section 7).
10.3 Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	: When exposed to high temperatures may produce hazardous decomposition products.
10.5 Incompatible materials	: Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.
10.6 Hazardous decomposition products	: Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.
Poter to Section 7: HANDLING	AND STOPACE and Section & EXPOSURE CONTROL S/REPSONAL

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

There are no data available on the mixture itself. Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]. See Sections 2 and 3 for details.

Exposure to component solvent vapour concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.

Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

Ingestion may cause nausea, diarrhea and vomiting.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Based on the properties of the epoxy constituent(s) and considering toxicological data on similar mixtures, this mixture may be a skin sensitiser and an irritant. It contains low molecular weight epoxy constituents which are irritating to eyes, mucous membrane and skin. Repeated skin contact may lead to irritation and to sensitisation, possibly with cross-sensitisation to other epoxies. Skin contact with the mixture and exposure to spray mist and vapour should be avoided.

SECTION 11: Toxicological information

Contains reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700), oxirane, mono[(C12-14-alkyloxy)methyl] derivs.. May produce an allergic reaction.

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Phenylmethanol	LD50 Dermal	Rabbit	2000 mg/kg	-
	LD50 Oral	Rat	1230 mg/kg	-
Alkyl Glycidyl Ether	LD50 Oral	Rat	17100 mg/kg	-

Acute toxicity estimates

Route	ATE value
Oral	17561.7 mg/kg
Inhalation (vapours)	157.1 mg/l

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Epoxy Polymer	Eyes - Mild irritant	Rabbit	-	100 milligrams	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 microliters	-
	Skin - Severe irritant	Rabbit	-	24 hours 2 milligrams	-
Phenol-Formaldehyde Polymer	Skin - Mild irritant	Rabbit	-	24 hours 500 microliters	-
Phenylmethanol	Skin - Mild irritant	Man	-	48 hours 16 milligrams	-
	Skin - Moderate irritant	Pig	-	100 Percent	-
	Skin - Moderate irritant	Rabbit	-	24 hours 100 milligrams	-
Alkyl Glycidyl Ether	Skin - Moderate irritant	Rabbit	-	24 hours 500 microliters	-
4-Morpholinecarboxaldehyde	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-

Conclusion/Summary : Not available.

Sensitisation

No data available

Conclusion/Summary

: Not available.

Mutagenicity

No data available

Carcinogenicity

No data available

Reproductive toxicity

No data available

Teratogenicity

No data available

Specific target organ toxicity (single exposure)

Product/	Catego	ry Route expos	-	Target o	organs	
No data available						
Specific target organ to	xicity (repeated ex	posure)				
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SECTION 11: Toxicological information

Product/ingredient name		Route of exposure	Target organs
Product/ingredient name		Result	
: Not available.			
	t/ingredient name	t/ingredient name	exposure t/ingredient name Result

SECTION 12: Ecological information

12.1 Toxicity

There are no data available on the mixture itself. Do not allow to enter drains or watercourses.

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]. See Sections 2 and 3 for details.

Product/ingredient name	Result	Species	Exposure
Phenylmethanol	Acute LC50 10000 µg/l Fresh water	Fish - Lepomis macrochirus	96 hours

12.2 Persistence and degradability

Product/ingredient name	Test	Result		Dose		Inoculum
No data available						
Conclusion/Summary	: Not available.					
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	radability
Phenylmethanol	-		-		Readily	

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Epoxy Polymer	-	31	low
Alkyl Glycidyl Ether	-	160 to 263	low
4-Morpholinecarboxaldehyde	-	<1.9	low

SECTION 13: Disposal considerations

13.1 Waste treatment metho	ds	
Product		
Methods of disposal	:	The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non- recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
Hazardous waste	:	Yes.
European waste catalogue (EWC)	:	waste paint and varnish containing organic solvents or other hazardous substances 08 01 11*
Disposal considerations	:	Do not allow to enter drains or watercourses. Dispose of according to all federal, state and local applicable regulations. If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned. For further information, contact your local waste authority.
Packaging		
Methods of disposal	:	The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
Disposal considerations	:	Using information provided in this safety data sheet, advice should be obtained from the relevant waste authority on the classification of empty containers. Empty containers must be scrapped or reconditioned. Dispose of containers contaminated by the product in accordance with local or national legal provisions.
European waste catalogue (EWC)	:	packaging containing residues of or contaminated by hazardous substances 15 01 10*
Special precautions	:	This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	IMDG	ΙΑΤΑ
14.1 UN number	UN3082	UN3082	UN3082
14.2 UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy Polymer, Phenol- Formaldehyde Polymer)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy Polymer, Phenol- Formaldehyde Polymer). Marine pollutant (Epoxy Polymer, Phenol- Formaldehyde Polymer)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy Polymer, Phenol- Formaldehyde Polymer)
14.3 Transport Hazard Class(es)/ Label(s)			9 • •
14.4 Packing group			
14.5 Environmental hazards	Yes.	Yes.	Yes.

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SECTION 14: Transport information

SECTION 14. Transport	t information		
Additional This pro	oduct is not regulated	This product is not regulated	This product is not regulated
transpo ≤5 kg, p packag provisio and 4.1	angerous good when orted in sizes of ≤ 5 L or provided the jings meet the general ons of 4.1.1.1, 4.1.1.2 1.1.4 to 4.1.1.8. I code E	as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8. <u>Emergency schedules</u> F-A, S-F	as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2. 6.1.1 and 5.0.2.8.

14.6 Special precautions for	:
user	

Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Transport in bulk : Not applicable. *according to Annex II of Marpol and the IBC Code*

Multi-modal shipping descriptions are provided for informational purposes and do not consider container sizes. The presence of a shipping description for a particular mode of transport (sea, air, etc.), does not indicate that the product is packaged suitably for that mode of transport. All packaging must be reviewed for suitability prior to shipment, and compliance with the applicable regulations is the sole responsibility of the person offering the product for transport. People loading and unloading dangerous goods must be trained on all of the risks deriving from the substances and on all actions in case of emergency situations.

SECTION 15: Regulatory information

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

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Annex XVII - Restrictions : Not applicable. on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles Other EU regulations

VOC content (2010/75/EU) : 7 w/w 112 g/l

Seveso Directive

This product may add to the calculation for determining whether a site is within the scope of the Seveso Directive on major accident hazards.

National regulations

15.2 Chemical safety assessment

: No Chemical Safety Assessment has been carried out.

assessment

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II DMD ANTI-SLIP EPOXY FLOOR COATING HEAVY DUTY FINE, MEDIUM & COARSE GRIT EPOXY RESIN (BASE)

11.221.301, 11.221.901, 11.222.301, 11.222.901, 11.223.301, 11.223.901

SECTION 16: Other information

Indicates information that	t has changed from previously issued version.
Abbreviations and acronyms	 ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level EUH statement = CLP-specific Hazard statement PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number vPvB = Very Persistent and Very Bioaccumulative
Key literature references and sources for data	 Regulation (EC) No. 1272/2008 [CLP] ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road IATA = International Air Transport Association IMDG = International Maritime Dangerous Goods Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2015/830 Directive 2012/18/EU, and relative amendments & additions Directive 2008/98/EC, and relative amendments & additions Directive 2009/161/EU, and relative amendments & additions CEPE Guidelines

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classif	fication Justification
Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411	Calculation method Calculation method Calculation method Calculation method
Full text of abbreviated H statements	 H302 Harmful if swallowed. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H332 Harmful if inhaled. H411 Toxic to aquatic life with long lasting effects.
Full text of classifications [CLP/GHS]	 Acute Tox. 4, H302 Acute Tox. 4, H332 Aquatic Chronic 2, H411 Eye Irrit. 2, H319 Skin Irrit. 2, H315 Skin Sens. 1, H317 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 SKIN CORROSION/IRRITATION - Category 2 SKIN SENSITISATION - Category 1
Date of printing	: 22, May, 2019.
Date of issue/ Date of revision	: 22, May, 2019
Date of previous issue	: 09, May, 2019
	: If there is no previous validation date please contact your supplier for more information.
Version	: 2.06
Notice to reader	

13/14

SECTION 16: Other information

It is recommended that each customer or recipient of this Safety Data Sheet (SDS) study it carefully and consult resources, as necessary or appropriate, to become make themselves aware of and understand the data contained in this SDS and any hazards that may be associated with the product. This information is provided in good faith and believed to be accurate as of the effective date mentioned herein. However, no warranty, express or implied, is given. The information presented here applies only to the product as shipped. The addition of any material can may change later the composition, hazards and risks of the product. Products shall should not be repackaged, modified, or tinted except as specifically instructed by the manufacturer, including but not limited to, the incorporation of products not specified by the manufacturer. or the use or addition of products in proportions not specified by the manufacturer. Regulatory requirements are subject to change and may differ between various locations and jurisdictions. The customer/buyer/user is responsible to ensure that his activities comply with all country, federal, state, provincial or local laws. The conditions for the use of the product are not under the manufacturer's control of the manufacturer; the customer/buyer/user is responsible to for determine determining the conditions necessary for the safe use of this product. The customer/buyer/user should not use the product for any purpose other than the purpose shown in the applicable section of this SDS, without first referring to the supplier and obtaining written handling instructions. Due to the proliferation of sources for information such as manufacturer-specific SDS, the manufacturer cannot be held responsible for SDSs obtained from any other source.

SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier	
Product name	: DMD ANTI-SLIP EPOXY FLOOR COATING HEAVY DUTY FINE, MEDIUM & COARSE GRIT (GREY, LIGHT GREY)
Product code	: 11.221.301, 11.221.901, 11.222.301, 11.222.901, 11.223.301, 11.223.901

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

Material uses	: Paint or paint related material.
	: Industrial use only.

1.3 Details of the supplier of the safety data sheet

DMD GmbH Gutedelstraße 38-42 79418 Schliengen Deutschland/Germany +49 (0) 7635 / 827140

e-mail address of person : info@dmd-gmbh.de *responsible for this SDS*

1.4 Emergency telephone number

National advisory body/Poison Centre

Telephone number: 112 (general public) / +49(0)761 19240 (poison centre)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition

: Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Repr. 1B, H360F (Fertility) Aquatic Chronic 3, H412 The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended. See Section 16 for the full text of the H statements declared above. See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements Hazard pictograms



SECTION 2: Hazards ide	ation	
Signal word	ger	
Hazard statements	mful if swallowed. ses severe skin burns cause an allergic ski damage fertility. mful to aquatic life wit	n reaction.
Precautionary statements		
Prevention		before use. Wear protective gloves. Wear protective protection. Avoid release to the environment.
Response	ediately call a POISC a POISON CENTER): Take off immediatel	son to fresh air and keep comfortable for breathing. N CENTER or physician. IF SWALLOWED: Immediately or physician. Do NOT induce vomiting. IF ON SKIN (or y all contaminated clothing. Rinse skin with water. N CENTER or physician. IF IN EYES: Immediately call a sician.
Storage	e locked up.	
Disposal	oose of contents and o international regulation	ontainer in accordance with all local, regional, national ns.
Hazardous ingredients	horone Diamine Benzenedimethanam Isopropylidenedipher	
Supplemental label elements	R INDUSTRIAL USE O	ILY
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	ricted to professional u	ers.
Special packaging requirem		
Not applicable.		

2.3 Other hazards

Other hazards which do : None known. not result in classification

SECTION 3: Composition/information on ingredients :

3.2 Mixture

Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Туре
Isophorone Diamine	EC: 220-666-8 CAS: 2855-13-2 Index: 612-067-00-9	≥25 - ≤50	Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 3, H412	[1]
Phenylmethanol	REACH #: 01-2119492630-38 EC: 202-859-9 CAS: 100-51-6 Index: 603-057-00-5	≥25 - ≤50	Acute Tox. 4, H302 Acute Tox. 4, H332	[1]
1, 3-Benzenedimethanamine	EC: 216-032-5 CAS: 1477-55-0	≤10	Acute Tox. 4, H302 Acute Tox. 4, H332 Skin Corr. 1B, H314	[1]

SECTION 3: Composition/information on ingredients

			See Section 16 for the full text of the H statements declared above.	
Salicylic Acid	CAS: 80-05-7 Index: 604-030-00-0 EC: 200-712-3 CAS: 69-72-7	≤5	STOT SE 3, H335 Aquatic Chronic 2, H411 Acute Tox. 4, H302 Eye Dam. 1, H318	[1]
4,4'- Isopropylidenediphenol	REACH #: 01-2119457856-23 EC: 201-245-8	≤10	Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 3, H412 Eye Dam. 1, H318 Skin Sens. 1, H317 Repr. 1B, H360F (Fertility)	[1] [2]

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs or vPvBs or have been assigned a workplace exposure limit and hence require reporting in this section.

<u>Type</u>

[1] Substance classified with a health or environmental hazard

- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
- [5] Substance of equivalent concern
- [6] Additional disclosure due to company policy

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures

4.1 Description of first aid measures

General	: In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and seek medical advice.
Eye contact	: Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.
Inhalation	: Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
Skin contact	: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.
Ingestion	: If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. 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

There are no data available on the mixture itself. Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]. See Sections 2 and 3 for details.

Exposure to component solvent vapour concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.

Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

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Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II DMD ANTI-SLIP EPOXY FLOOR COATING HEAVY DUTY FINE, MEDIUM & COARSE GRIT HARDENER

11.221.301, 11.221.901, 11.222.301, 11.222.901, 11.223.301, 11.223.901

SECTION 4: First aid measures

Ingestion may cause nausea, diarrhea and vomiting.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Contains 3-aminomethyl-3,5,5-trimethylcyclohexylamine, m-phenylenebis(methylamine), bisphenol A. May produce an allergic reaction.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	: No specific treatment.

See toxicological information (Section 11)

SECTION 5: Firefighting	SECTION 5: Firefighting measures				
5.1 Extinguishing media					
Suitable extinguishing media	: Recommended: alcohol-resistant foam, carbon dioxide, powders.				
Unsuitable extinguishing media	Do not use water jet.				
5.2 Special hazards arising t	rom the substance or mixture				
Hazards from the substance or mixture					
Hazardous combustion products	: Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.				
5.3 Advice for firefighters					
Special protective actions for fire-fighters	: Cool closed containers exposed to fire with water. Do not release runoff from fire to drains or watercourses.				
Special protective equipment for fire-fighters	: Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.				
SECTION 6: Accidental					
6.1 Personal precautions, pr	otective equipment and emergency procedures				
For non-emergency Personnel	: Exclude sources of ignition and ventilate the area. Avoid breathing vapour or mist.				

For non-emergency Personnel	: Exclude sources of ignition and ventilate the area. Avoid breathing vapour or mist. Refer to protective measures listed in sections 7 and 8.				
	Keep unnecessary and unprotected personnel from entering.				
For emergency responders	: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".				
6.2 Environmental precautions	: Do not allow to enter drains or watercourses. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.				
6.3 Methods and material for containment and cleaning up	: Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Preferably clean with a detergent. Avoid using solvents.				

6.4 Reference to other sections	: See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.
SECTION 7: Handling	and storage
	n contains generic advice and guidance. The list of Identified Uses in Section 1 should e use-specific information provided in the Exposure Scenario(s).
7.1 Precautions for safe handling	 Prevent the creation of flammable or explosive concentrations of vapours in air and avoid vapour concentrations higher than the occupational exposure limits. In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard. Mixture may charge electrostatically: always use earthing leads when transferring from one container to another. Operators should wear antistatic footwear and clothing and floors should be of the conducting type. Keep away from heat, sparks and flame. No sparking tools should be used. Avoid contact with skin and eyes. Avoid the inhalation of dust, particulates, spray or mist arising from the application of this mixture. Avoid inhalation of dust from sanding. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Put on appropriate personal protective equipment (see Section 8). Never use pressure to empty. Container is not a pressure vessel.

Always keep in containers made from the same material as the original one. Comply with the health and safety at work laws.

Do not allow to enter drains or watercourses.

Information on fire and explosion protection

Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air.

When operators, whether spraying or not, have to work inside the spray booth, ventilation is unlikely to be sufficient to control particulates and solvent vapour in all cases. In such circumstances they should wear a compressed air-fed respirator during the spraying process and until such time as the particulates and solvent vapour concentration has fallen below the exposure limits.

7.2 Conditions for safe storage, including any incompatibilities	 Store in accordance with local regulations. Notes on joint storage Keep away from: oxidising agents, strong alkalis, strong acids. Additional information on storage conditions Observe label precautions. Store in a dry, cool and well-ventilated area. Keep away from heat and direct sunlight. Keep away from sources of ignition. No smoking. Prevent unauthorised access. Containers that have been opened must
	smoking. Prevent unauthorised access. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Contaminated absorbent material may pose the same hazard as the spilt product.

7.3 Specific end use(s)	
Recommendations	: Not available.
Industrial sector specific solutions	: Not available.

Good housekeeping standards, regular safe removal of waste materials and regular maintenance of spray booth filters will minimise the risks of spontaneous combustion and other fire hazards.

Before use of this material please refer to the Exposure Scenario(s) if attached for the specific end use, control measures and additional PPE considerations.

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II DMD ANTI-SLIP EPOXY FLOOR COATING HEAVY DUTY FINE, MEDIUM & COARSE GRIT HARDENER

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SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

8.1 Control parameters

Occupational exposure limits

Product/ingredient name		Exposure limit values			
4,4'-Isopropylidenediphenol		EH40/2005 WELs (United Kingdom (UK), 8/2018).			
Recommended monitoring procedures	 If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required. Regular monitoring of all work areas should be carried out at all times, 				
		that may not be equally ventilated.			
DNELs/DMELs No DNELs/DMELs available).				
PNECs No PNECs available					
8.2 Exposure controls					
Appropriate engineering controls	achieved by the If these are not	te ventilation. Where reasonably practicable, this should be use of local exhaust ventilation and good general extraction. sufficient to maintain concentrations of particulates and below the OEL, suitable respiratory protection must be worn.			
	: Users are advis other equivalen	ed to consider national Occupational Exposure Limits or t values.			
Individual protection meas	•				
<i>Hygiene measures</i>	eating, smoking an Appropriate techni Contaminated wor contaminated clot	earms and face thoroughly after handling chemical products, before nd using the lavatory and at the end of the working period. iques should be used to remove potentially contaminated clothing. If clothing should not be allowed out of the workplace. Wash hing before reusing. Ensure that eyewash stations and safety to the workstation location.			
<i>Eye/face protection</i> Skin protection	: Use safety eyev	vear designed to protect against splash of liquids.			
Hand protection	: Wear suitable g	loves tested to EN374.			
Gloves	: Gloves for term Gloves for splas with chemicals. Gloves for repe the hazardous i solvents (Xylen alcohol (PVA) g	exposure/splash protection (less than 10 min):Nitrile>0.12 mm sh protection need to be changed immediately when in contact ated or prolonged exposure (breakthrough time > 240 min.) When ngredients in Section 3 contain any of the following: Aromatic e, Toluene) or Aliphatic solvents or Mineral Oil use: Polyvinyl loves 0.2-0.3 mm Otherwise use: Butyl gloves >0.3 mm For long or spills (breakthrough time >480 min.): Use PE laminated gloves			
Data of incurs/Data of revision	22 Mar 2010	Poto of provious issue 122 Jan 2010 Version 15			

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II DMD ANTI-SLIP EPOXY FLOOR COATING HEAVY DUTY FINE, MEDIUM & COARSE GRIT HARDENER

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SECTION 8: Exposure controls/personal protection

oconion o. Exposure e						
	Due to many conditions (e.g. temperature, abrasion) the practical usage of a chemical protective glove in practice may be much shorter than the permeation time determined through testing. The recommendation for the type or types of glove to usewhen handling this					
	product is based on information from the following source: Solvent resin manufacturers and European Solvents Industry Group (ESIG).					
	There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals.					
	The breakthrough time must be greater than the end use time of the product. The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.					
	Gloves should be replaced regularly and if there is any sign of damage to the glove material.					
	Always ensure that gloves are free from defects and that they are stored and used correctly.					
	The performance or effectiveness of the glove may be reduced by physical/chemical damage and poor maintenance.					
	Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred.					
	The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.					
Body protection	: Personnel should wear antistatic clothing made of natural fibres or of high- temperature-resistant synthetic fibres.					
	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.					
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.					
Respiratory protection	: Application methods: Brush or roller. Approved/certified respirator with organic vapour cartridge. Filter type: A2 P2 (EN14387).					
	Manual spraying. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.					
Environmental exposure controls	: Do not allow to enter drains or watercourses.					

Before use of this material please refer to the Exposure Scenario(s) if attached for the specific end use, control measures and additional PPE considerations. The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation. The provisions of the national health and safety at work regulations apply to the use of this product at work.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance Physical state

	: Liquid.	
Colour Odour	: Not available.	
Odour threshold pH	: Solvent.	
Melting point/freezing point	: Not Available (Not Tested).	
Initial boiling point and boiling	: Not relevant/applicable due to nature of the product.	
range	: Not relevant/applicable due to nature of the product.	
Flash point Evaporation rate	202°C	
	: Closed cup: 499°C [Pensky-Martens Closed Cup]	
	: Not relevant/applicable due to nature of the product.	

SECTION 9: Physical and chemical properties

Flammability (solid, gas)	: Not relevant/applicable due to nature of the product.
Upper/lower flammability or explosive limits	: LEL: 1.1% (Salicylic Acid) UEL: 13% (Phenylmethanol)
Vapour pressure	: 0.02 kPa [at 20°C]
Vapour density	: 3.72 [Air = 1]
Relative density	: 1.04
Solubility(ies)	: Not relevant/applicable due to nature of the product.
Partition coefficient: n-octanol/ water	': Not relevant/applicable due to nature of the product.
Auto-ignition temperature	: Not relevant/applicable due to nature of the product.
Decomposition temperature	: Not relevant/applicable due to nature of the product.
<i>Viscosity Explosive properties Oxidising properties</i>	 Kinematic (40°C): >0.205 cm²/s Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur.

SECTION 10: Stability and reactivity				
10.1 Reactivity		No specific test data related to reactivity available for this product or its ingredients.		
10.2 Chemical stability	:	Stable under recommended storage and handling conditions (see Section 7).		
10.3 Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur.		
10.4 Conditions to avoid	:	When exposed to high temperatures may produce hazardous decomposition products.		
10.5 Incompatible materials	:	Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.		
10.6 Hazardous decomposition products	:	Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.		
Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL				

PROTECTION for additional handling information and protection of employees.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

There are no data available on the mixture itself. Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]. See Sections 2 and 3 for details.

Exposure to component solvent vapour concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.

Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

Ingestion may cause nausea, diarrhea and vomiting.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Contains 3-aminomethyl-3,5,5-trimethylcyclohexylamine, m-phenylenebis(methylamine), bisphenol A. May produce an allergic reaction.

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SECTION 11: Toxicological information

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Phenylmethanol	LD50 Dermal	Rabbit	2000 mg/kg	-
	LD50 Oral	Rat	1230 mg/kg	-
1,3-Benzenedimethanamine	LC50 Inhalation Gas.	Rat	700 ppm	1 hours
	LD50 Dermal	Rabbit	2 g/kg	-
	LD50 Oral	Rat	930 mg/kg	-
4,4'-Isopropylidenediphenol	LD50 Oral	Rat	1200 mg/kg	-

Acute toxicity estimates

Route	ATE value
Oral	756.4 mg/kg
Dermal	2682.9 mg/kg
Inhalation (gases)	50000 ppm
Inhalation (vapours)	27.5 mg/l

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Phenylmethanol	Skin - Mild irritant	Man	-	48 hours 16 milligrams	-
	Skin - Moderate irritant	Pig	-	100 Percent	-
	Skin - Moderate irritant	Rabbit	-	24 hours 100 milligrams	-
1,3-Benzenedimethanamine	Eyes - Severe irritant	Rabbit	-	24 hours 50 Micrograms	
	Skin - Severe irritant	Rabbit	-	24 hours 750 Micrograms	-
4,4'-Isopropylidenediphenol	Eyes - Severe irritant	Rabbit	-	24 hours 250 Micrograms	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	250 milligrams	-
Conclusion/Summary	: Not available.				

Sensitisation

No data available

Conclusion/Summary : Not available.

Mutagenicity

No data available

Carcinogenicity

No data available

Reproductive toxicity

No data available

Teratogenicity

No data available

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
4,4'-Isopropylidenediphenol	Category 3	Not applicable.	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Product/ingr	edient name	Category	Route of exposure	Target organs
No data available				
Aspiration hazard				
Product/ir	ngredient name		Result	
No data available				
	- <u>-</u>			

SECTION 12: Ecological information

12.1 Toxicity

There are no data available on the mixture itself. Do not allow to enter drains or watercourses.

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]. See Sections 2 and 3 for details.

Product/ingredient name	Result	Species	Exposure
Isophorone Diamine	Acute EC50 17.4 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
Phenylmethanol	Acute LC50 10000 µg/l Fresh water	Fish - Lepomis macrochirus	96 hours
4,4'-Isopropylidenediphenol	Acute EC50 1000 µg/l Marine water	Algae - Skeletonema costatum	96 hours
	Acute EC50 1.506 mg/l Marine water	Algae - Prorocentrum minimum - Exponential growth phase	72 hours
	Acute EC50 7.75 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 50.4 µg/l Marine water	Crustaceans - Artemia sinica	48 hours
	Acute LC50 3.5 mg/l Marine water	Fish - Rivulus marmoratus - Embryo	96 hours
	Chronic NOEC 2 mg/l Fresh water	Algae - Chlorolobion braunii - Exponential growth phase	4 days
	Chronic NOEC 10 µg/l Marine water	Crustaceans - Tigriopus japonicus - Nauplii	21 days
	Chronic NOEC 30 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	21 days
	Chronic NOEC 0.2 µg/l Fresh water	Fish - Carassius auratus - Adult	90 days
Salicylic Acid	Acute LC50 111.7 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Chronic NOEC 5.6 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	21 days

12.2 Persistence and degradability

Product/ingredient name	Test	Result		Dose		Inoculum
No data available						
Conclusion/Summary	: Not available.					
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	radability
Phenylmethanol	-		-		Readily	

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
1,3-Benzenedimethanamine		2.69	low
4,4'-Isopropylidenediphenol		20 to 67	low

SECTION 12: Ecologic 12.4 Mobility in soil	al ir	nformation
Soil/water partition coefficient (Koc)	:	Not available.
Mobility	:	Not available.
12.5 Results of PBT and vP	vB a	ssessment
PBT	:	Not applicable.
vPvB	:	Not applicable.
12.6 Other adverse effects	:	No known significant effects or critical hazards.
	:	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.
SECTION 13: Disposal		nsiderations
13.1 Waste treatment metho Product	ods	
Methods of disposal	:	The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non- recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
Hazardous waste	:	Yes.
European waste catalogue (EWC)	:	waste paint and varnish containing organic solvents or other hazardous substances 08 01 11*
Disposal considerations	:	Do not allow to enter drains or watercourses. Dispose of according to all federal, state and local applicable regulations. If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned. For further information, contact your local waste authority.
Packaging_		
Methods of disposal	:	The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
Disposal considerations	:	Using information provided in this safety data sheet, advice should be obtained from the relevant waste authority on the classification of empty containers. Empty containers must be scrapped or reconditioned. Dispose of containers contaminated by the product in accordance with local or national legal provisions.
European waste catalogue (EWC)	:	packaging containing residues of or contaminated by hazardous substances 15 01 10^{*}
Special precautions	:	This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	IMDG	ΙΑΤΑ
14.1 UN number	UN3066	UN3066	UN3066
14.2 UN proper shipping name	PAINT RELATED MATERIAL	PAINT RELATED MATERIAL	PAINT RELATED MATERIAL
14.3 Transport Hazard Class(es)/ Label(s)	8	8	8
14.4 Packing group	II V	II 🔽	II 🔽
14.5 Environmental hazards	No.	No.	No.
Additional information	Tunnel code E	Emergency schedules F-A, S-B	-

user

14.6 Special precautions for : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

: Not applicable. 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Multi-modal shipping descriptions are provided for informational purposes and do not consider container sizes. The presence of a shipping description for a particular mode of transport (sea, air, etc.), does not indicate that the product is packaged suitably for that mode of transport. All packaging must be reviewed for suitability prior to shipment, and compliance with the applicable regulations is the sole responsibility of the person offering the product for transport. People loading and unloading dangerous goods must be trained on all of the risks deriving from the substances and on all actions in case of emergency situations.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

Ingredient name	Intrinsic property	Status	Reference number	Date of revision
4,4'-Isopropylidenediphenol	Toxic to reproduction	Candidate	-	1/12/2017

Annex XVII - Restrictions : Restricted to professional users.

on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Other EU regulations

VOC content (2010/75/EU) : 40 w/w

SECTION 15: Regulatory information

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Seveso Directive

This product is not controlled under the Seveso Directive.

National regulations

15.2 Chemical safety	: No Chemical Safety Assessment has been carried out.
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assessment

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms	: ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level EUH statement = CLP-specific Hazard statement PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number vPvB = Very Persistent and Very Bioaccumulative
Key literature references and sources for data	 Regulation (EC) No. 1272/2008 [CLP] ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road IATA = International Air Transport Association IMDG = International Maritime Dangerous Goods Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2015/830 Directive 2012/18/EU, and relative amendments & additions Directive 2008/98/EC, and relative amendments & additions Directive 2009/161/EU, and relative amendments & additions CEPE Guidelines

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classi	fication	Justification
Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Repr. 1B, H360F (Fertility) Aquatic Chronic 3, H412		Calculation method Calculation method Calculation method Calculation method Calculation method Calculation method
Full text of abbreviated H statements	: H302 H312 H314 H317 H318 H332 H335 H360F H411 H412	Harmful if swallowed. Harmful in contact with skin. Causes severe skin burns and eye damage. May cause an allergic skin reaction. Causes serious eye damage. Harmful if inhaled. May cause respiratory irritation. May damage fertility. Toxic to aquatic life with long lasting effects. Harmful to aquatic life with long lasting effects.

SECTION 16: Other information

SECTION 16: Other Inic	rmation	
Full text of classifications	: Acute Tox. 4, H302	ACUTE TOXICITY (oral) - Category 4
[CLP/GHS]	Acute Tox. 4, H312	ACUTE TOXICITY (dermal) - Category 4
	Acute Tox. 4, H332	ACUTE TOXICITY (inhalation) - Category 4
	Aquatic Chronic 2, H411	LONG-TERM (CHRONIC) AQUATIC HAZARD -
		Category 2
	Aquatic Chronic 3, H412	2 LONG-TERM (CHRONIC) AQUATIC HAZARD -
	1	Category 3
	Eye Dam. 1, H318	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
	Repr. 1B, H360F	REPRODUCTIVE TOXICITY (Fertility) - Category 1B
	Skin Corr. 1B, H314	SKIN CORROSION/IRRITATION - Category 1B
	Skin Sens. 1, H317	SKIN SENSITISATION - Category 1
	STOT SE 3, H335	SPECIFIC TARGET ORGAN TOXICITY - SINGLE
		EXPOSURE (Respiratory tract irritation) - Category 3
Date of printing	: 22, Mar, 2019.	
Date of issue/ Date of	: 22, Mar, 2019	
revision	,,	
Date of previous issue	: 22, Jan, 2019	
	: If there is no previous vali	dation date please contact your supplier for more
	information.	
Version	. 5	
VEISION	: 5	

Notice to reader

It is recommended that each customer or recipient of this Safety Data Sheet (SDS) study it carefully and consult resources, as necessary or appropriate, to become make themselves aware of and understand the data contained in this SDS and any hazards that may be associated with the product. This information is provided in good faith and believed to be accurate as of the effective date mentioned herein. However, no warranty, express or implied, is given. The information presented here applies only to the product as shipped. The addition of any material can may change later the composition, hazards and risks of the product. Products shall should not be repackaged, modified, or tinted except as specifically instructed by the manufacturer, including but not limited to, the incorporation of products not specified by the manufacturer, or the use or addition of products in proportions not specified by the manufacturer. Regulatory requirements are subject to change and may differ between various locations and jurisdictions. The customer/buyer/user is responsible to ensure that his activities comply with all country, federal, state, provincial or local laws. The conditions for the use of the product are not under the manufacturer's control of the manufacturer; the customer/buyer/user is responsible to for determine determining the conditions necessary for the safe use of this product. The customer/buyer/user should not use the product for any purpose other than the purpose shown in the applicable section of this SDS, without first referring to the supplier and obtaining written handling instructions. Due to the proliferation of sources for information such as manufacturer-specific SDS. the manufacturer cannot be held responsible for SDSs obtained from any other source.

SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier	
Product name	: DMD ANTI-SLIP EPOXY FLOOR COATING HEAVY DUTY FINE, MEDIUM & COARSE GRIT (GREY, LIGHT GREY)
	: 1.221.301, 11.221.901, 11.222.301, 11.222.901, 11.223.301, 11.223.901
1.2 Relevant identified use	s of the substance or mixture and uses advised against
Material uses	: Paint or paint related material.
	: Industrial use only.
1.3 Details of the supplier o sheet	of the safety data
DMD GmbH Gutedelstraße 38-42 79418 Schliengen Deutschland/Germany +49 (0) 7635 / 827140	
e-mail address of person responsible for this SDS	info@dmd-gmbh.de
1.4 Emergency telephone n	umber
Made and a design to a design.	bison Centre
National advisory body/Po	

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition :	Mixture
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Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements		
Signal word	:	No signal word.
Hazard statements	:	No known significant effects or critical hazards.
Precautionary statements		
Prevention	:	Not applicable.
Response	1	Not applicable.
Storage	:	Not applicable.
Disposal		Not applicable

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SECTION 2: Hazards identification

Supplemental label elements : FOR INDUSTRIAL USE ONLY

Annex XVII - Restrictions : Not applicable. on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Special packaging requirements

Not applicable.

2.3 Other hazards

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

Other hazards which do : None known. not result in classification

SECTION 3: Composition/information on ingredients

3.2 Mixture

Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Туре
Aluminum Oxide	REACH #: 01-2119529248-35 EC: 215-691-6 CAS: 1344-28-1	≥90	Not classified.	[2]
Titanium Dioxide	REACH #: 01-2119489379-17 EC: 236-675-5 CAS: 13463-67-7	s 3	Not classified.	[2]

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs or vPvBs or have been assigned a workplace exposure limit and hence require reporting in this section.

Type

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII

[4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

[5] Substance of equivalent concern

[6] Additional disclosure due to company policy

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures

4.1 Description of first aid measures

General	 In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and seek medical advice.
Eye contact	 Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.
Inhalation	 Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
Skin contact	 Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.

SECTION 4: First aid measures

Ingestion	 If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training.

4.2 Most important symptoms and effects, both acute and delayed

There are no data available on the mixture itself. Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]. See Sections 2 and 3 for details.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact. Coating powders can cause localised skin irritation in folds of the skin or under tight clothing.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	 Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: No specific treatment.

See toxicological information (Section 11)

SECTION 5: Firefighting measures 5.1 Extinguishing media Suitable extinguishing : Recommended: alcohol-resistant foam, carbon dioxide blanket media Unsuitable extinguishing : Do not use water jet. media Do not use inert gas under high pressure (e.g. CO2). 5.2 Special hazards arising from the substance or mixture Hazards from the : Fire will produce dense black smoke. Exposure to decomposition products may substance or mixture cause a health hazard. Hazardous combustion : Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen. products 5.3 Advice for firefighters Special protective actions : Cool closed containers exposed to fire with water. Do not release runoff from fire to for fire-fighters drains or watercourses. : Fire-fighters should wear positive pressure self-contained breathing apparatus Special protective equipment for fire-fighters (SCBA) and full turnout gear. SECTION 6: Accidental release measures 6.1 Personal precautions, protective equipment and emergency procedures For non-emergency Exclude sources of ignition and ventilate the area. Avoid breathing dust. Refer to personnel protective measures listed in sections 7 and 8. Keep unnecessary and unprotected personnel from entering. For emergency responders : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". 6.2 Environmental : Do not allow to enter drains or watercourses. If the product contaminates lakes,

precautions rivers, or sewers, inform the appropriate authorities in accordance with local regulations.

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SECTION 6: Accidental release measures

6.3 Methods and material	Contain and collect spillage with an electrically protected vacuum cleaner or by wet-		
for containment and	brushing and place in container for disposal according to local regulations (see		
cleaning up	section 13). Do not use a dry brush as dust clouds or static can be created.		
6.4 Reference to other sections	 See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information. 		

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

Advice should be taken from a competent occupational health practitioner on the assessment of employees with skin or respiratory complaints before the individual is exposed to the uncured product.

7.1 Precautions for safe handling		Precautions should be taken to prevent the formation of dusts in concentrations above flammable, explosive or occupational exposure limits. Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. Mixture may charge electrostatically: always use earthing leads when transferring from one container to another. Operators should wear antistatic footwear and clothing and floors should be of the conducting type. Keep away from heat, sparks and flame. Avoid contact with skin and eyes. Avoid the inhalation of dust, particulates, spray or mist arising from the application of this mixture. Avoid inhalation of dust from sanding. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Put on appropriate personal protective equipment (see Section 8). Always keep in containers made from the same material as the original one. Comply with the health and safety at work laws. Do not allow to enter drains or watercourses.
7.2 Conditions for safe storage, including any incompatibilities	:	Store in accordance with local regulations. Additional information on storage conditions Observe label precautions. Store in a dry, cool and well-ventilated area. Keep away from heat and direct sunlight. Keep container tightly closed. Keep away from sources of ignition. No smoking. Prevent unauthorised access. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.
		Contaminated absorbent material may pose the same hazard as the spilt product.
7.3 Specific end use(s)		
Recommendations	:	Not available.
Industrial sector specific solutions		Not available.

Good housekeeping standards, regular safe removal of waste materials and regular maintenance of spray booth filters will minimise the risks of spontaneous combustion and other fire hazards.

Before use of this material please refer to the Exposure Scenario(s) if attached for the specific end use, control measures and additional PPE considerations.

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SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

8.1 Control parameters

Occupational exposure limits

Product/ingredient name Aluminum Oxide Titanium Dioxide		name Exposure limit values
		EH40/2005 WELs (United Kingdom (UK), 8/2018). TWA: 10 mg/m ³ 8 hours. Form: inhalable dust EH40/2005 WELs (United Kingdom (UK), 8/2018). TWA: 10 mg/m ³ 8 hours. Form: inhalable dust TWA: 4 mg/m ³ 8 hours. Form: respirable dust
Recommended monitoring procedures		If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required. Regular monitoring of all work areas should be carried out at all times, including
		areas that may not be equally ventilated.
DNELs/DMELs		
No DNELs/DMELs available.		
<u>PNECs</u> No PNECs available		
.2 Exposure controls		
Appropriate engineering controls	:	Avoid breathing dust. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain exposure to dusts below the OEL, suitable respiratory protection must be worn.
	:	Users are advised to consider national Occupational Exposure Limits or other equivalent values.
Individual protection measu	ire	<u>5</u>
Hygiene measures	:	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	:	Safety eyewear should be used when there is a likelihood of exposure.
Skin protection		
Hand protection	2	Wear suitable gloves tested to EN374.
Gloves	2	Gloves for short term exposure or repeated or prolonged exposure (480 min): Wear any rubber glove such as Nitrile or Neoprene gloves. Due to many conditions (e.g. temperature, abrasion) the practical usage of a chemical protective glove in practice may be much shorter than the permeation time determined through testing.

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SECTION 8: Exposure controls/personal protection

	There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals.
	The breakthrough time must be greater than the end use time of the product. The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.
	Gloves should be replaced regularly and if there is any sign of damage to the glove material.
	Always ensure that gloves are free from defects and that they are stored and used correctly.
	The performance or effectiveness of the glove may be reduced by physical/chemical damage and poor maintenance.
	Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred.
	The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.
Body protection	Personnel should wear protective clothing. Care should be taken in the selection of protective clothing to ensure that inflammation and irritation of the skin at the neck and wrists through contact with the powder are avoided.
	 Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Recommended: particulate filter, P2-P3 (EN14387). Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
Environmental exposure controls	: Do not allow to enter drains or watercourses.

Before use of this material please refer to the Exposure Scenario(s) if attached for the specific end use, control measures and additional PPE considerations. The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation. The provisions of the national health and safety at work regulations apply to the use of this product at work.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	
Physical state	: Solid.
Colour	: Not available.
Odour	: None
Odour threshold	: Not applicable.
pН	: Not relevant/applicable due to nature of the product.
Melting point/freezing point	: Not relevant/applicable due to nature of the product.
Initial boiling point and boiling range	: Not relevant/applicable due to nature of the product.
Flash point	: Closed cup: 499°C [Pensky-Martens Closed Cup]
Evaporation rate	: Not relevant/applicable due to nature of the product.
Flammability (solid, gas)	: Not relevant/applicable due to nature of the product.
Upper/lower flammability or explosive limits	: Not relevant/applicable due to nature of the product.
Vapour pressure	: Not relevant/applicable due to nature of the product.
Vapour density	: Not relevant/applicable due to nature of the product.

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SECTION 9: Physical and chemical properties

Relative density	:	3.94
Solubility(ies)	:	Not relevant/applicable due to nature of the product.
Partition coefficient: n-octanol/ water	:	Not relevant/applicable due to nature of the product.
Auto-ignition temperature	:	Not relevant/applicable due to nature of the product.
Decomposition temperature	:	Not relevant/applicable due to nature of the product.
Viscosity	:	Kinematic (40°C): >0.205 cm²/s
Explosive properties	:	Under normal conditions of storage and use, hazardous reactions will not occur.
Oxidising properties	;	Under normal conditions of storage and use, hazardous reactions will not occur.

SECTION 10: Stability and reactivity

1		
10.1 Reactivity	8	No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability		Stable under recommended storage and handling conditions (see Section 7).
10.3 Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	:	When exposed to high temperatures may produce hazardous decomposition products.
10.5 Incompatible materials		Not applicable.
10.6 Hazardous decomposition products	;	Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

There are no data available on the mixture itself. Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]. See Sections 2 and 3 for details.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact. Coating powders can cause localised skin irritation in folds of the skin or under tight clothing.

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
No data available				
Acute toxicity estimates				
No data available				
rritation/Corrosion				
No data available				
Conclusion/Summary	: Not available.			
Sensitisation				
No data available				
Conclusion/Summary	: Not available.			
Mutagenicity				

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SECTION 11: Toxicological information

No data available

Carcinogenicity

No data available

Reproductive toxicity

No data available

Teratogenicity

No data available

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
No data available			

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of	Target organs
		exposure	
Na data aradiatia		exposure	

No data available

Aspiration hazard

Product/ingredient name	Result	
No data available		

Other information

: Not available.

SECTION 12: Ecological information

12.1 Toxicity

There are no data available on the mixture itself.

Coating powder residues should not be allowed to enter drains or watercourses or be deposited where they could affect ground or surface waters.

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

12.2 Persistence and degradability

Test	Result		Dose		Inoculum
10					
: Not availab	le.				
Aquatic half-	life	Photolysis		Biode	gradability
	: Not availab	Test Result : Not available. Aquatic half-life	: Not available.	: Not available.	: Not available.

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
No data available			

12.4 Mobility in soil		
Soil/water partition coefficient (Koc)	:	Not available.
Mobility	3	Not available.

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11.221.301, 11.221.901, 11.222.301, 11.222.901, 11.223.301, 11.223.901

SECTION 12: Ecological information

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Other adverse effects	:	No known significant effects or critical hazards.
	:	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 13: Disposal considerations

13.1 Waste treatment metho	ds
Product	
Methods of disposal	The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non- recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
Hazardous waste	: No.
European waste catalogue (EWC)	: 08 01 12 - waste paint and varnish other than those mentioned in 08 01 11
Disposal considerations	 Do not allow to enter drains or watercourses. Dispose of according to all federal, state and local applicable regulations. If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned. For further information, contact your local waste authority.
Packaging	
Methods of disposal	 The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
Disposal considerations	: Using information provided in this safety data sheet, advice should be obtained from the relevant waste authority on the classification of empty containers. Empty containers must be scrapped or reconditioned. Dispose of containers contaminated by the product in accordance with local or national legal provisions.
European waste catalogue (EWC)	: Plastic articles 15 01 02 - metallic packaging 15 01 04 - mixed packaging 15 01 06.
Special precautions	This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	IMDG	IATA
14.1 UN number	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-		•
14.3 Transport Hazard Class(es)/ Label(s)	-		
14.4 Packing group		2	2

SECTION 14: Transport information

14.5 Environmental hazards	No.	No.	No.
Additional information		×	-

This mixture is not classified as dangerous according to international transport regulations (ADR/RID, IMDG, ICAO/IATA).

14.6 Special precautions for : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Transport in bulk : Not applicable. according to Annex II of Marpol and the IBC Code

Multi-modal shipping descriptions are provided for informational purposes and do not consider container sizes. The presence of a shipping description for a particular mode of transport (sea, air, etc.), does not indicate that the product is packaged suitably for that mode of transport. All packaging must be reviewed for suitability prior to shipment, and compliance with the applicable regulations is the sole responsibility of the person offering the product for transport. People loading and unloading dangerous goods must be trained on all of the risks deriving from the substances and on all actions in case of emergency situations.

SECTION 15: Regulatory information

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

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Annex XVII - Restrictions : Not applicable. on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Other EU regulations

VOC content	(2010/75/EU)	:	0	w/w
			0	g/l

Seveso Directive

This product is not controlled under the Seveso Directive.

National regulations

15.2 Chemical safety : No Chemical Safety Assessment has been carried out.

assessment

SECTION 16: Other information

Indicates information that has changed from previously issued version.

1200	Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II
	DMD ANTI-SLIP EPOXY FLOOR COATING HEAVY DUTY FINE, MEDIUM & COARSE GRIT ALUMINIUM OXIDE AGGREGATE
	11.221.301, 11.221.901, 11.222.301, 11.222.901, 11.223.301, 11.223.901

SECTION 16: Other information

Abbreviations and	: ATE = Acute Toxicity Estimate
acronyms	CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
	DMEL = Derived Minimal Effect Level
	DNEL = Derived No Effect Level
	EUH statement = CLP-specific Hazard statement
	PBT = Persistent, Bioaccumulative and Toxic
	PNEC = Predicted No Effect Concentration
	RRN = REACH Registration Number
	vPvB = Very Persistent and Very Bioaccumulative
	N/A = Not available
Key literature references	: Regulation (EC) No. 1272/2008 [CLP]
and sources for data	ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
	IATA = International Air Transport Association
	IMDG = International Maritime Dangerous Goods
	Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2015/830
	Directive 2012/18/EU, and relative amendments & additions
	Directive 2008/98/EC, and relative amendments & additions
	Directive 2009/161/EU, and relative amendments & additions
	CEPE Guidelines

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification		Justification	
Not classified.			
Full text of abbreviated H statements	: Not applicable.		
Full text of classifications [CLP/GHS]	: Not applicable.		
Date of printing	: 05, Mar, 2020.		
Date of issue/ Date of revision	: 05, Mar, 2020	05, Mar, 2020	
Date of previous issue	: No previous validation	No previous validation	
	 If there is no previous va information. 	alidation date please contact your supplier for more	
Version	: 1	1	

Notice to reader

It is recommended that each customer or recipient of this Safety Data Sheet (SDS) study it carefully and consult resources, as necessary or appropriate, to become make themselves aware of and understand the data contained in this SDS and any hazards that may be associated with the product. This information is provided in good faith and believed to be accurate as of the effective date mentioned herein. However, no warranty, express or implied, is given. The information presented here applies only to the product as shipped. The addition of any material can may change later the composition, hazards and risks of the product. Products shall should not be repackaged, modified, or tinted except as specifically instructed by the manufacturer, including but not limited to, the incorporation of products not specified by the manufacturer, or the use or addition of products in proportions not specified by the manufacturer. Regulatory requirements are subject to change and may differ between various locations and jurisdictions. The customer/buyer/user is responsible to ensure that his activities comply with all country, federal, state, provincial or local laws. The conditions for the use of the product are not under the manufacturer's control of the manufacturer; the customer/buyer/user is responsible to for determine determining the conditions necessary for the safe use of this product. The customer/buyer/user should not use the product for any purpose other than the purpose shown in the applicable section of this SDS, without first referring to the supplier and obtaining written handling instructions. Due to the proliferation of sources for information such as manufacturer-specific SDS,

DMD ANTI-SLIP EPOXY FLOOR COATING HEAVY DUTY FINE, MEDIUM & COARSE GRIT ALUMINIUM OXIDE AGGREGATE

11.221.301, 11.221.901, 11.222.301, 11.222.901, 11.223.301, 11.223.901

SECTION 16: Other information

the manufacturer cannot be held responsible for SDSs obtained from any other source.