Safety Data Sheet

EPOXYLITE 813 PART A

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ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2020/878

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Version 4.0

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

1.1 Product identifier

Product name	Epoxylite 813 Part A
Product code	Not applicable
Unique Formula Identifier (UFI)	Not applicable
Nanoform	The product does not contain nanoparticles.

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

Identified Use(s)	PC14 Metal surface treatment products, including galvanic and electroplating products.
Uses advised against	For professional users only.

1.3 Details of the supplier of the safety data sheet

Company Identification	VISHAY MEASUREMENTS GROUP GMBH Tatschenweg 1 74078 Heilbronn Deutschland
Telephone	+49 (0) 7131 39099-0
Fax	+49 (0) 7131 39099-229
E-mail (competent person)	mm.de@vpgsensors.com

1.4 Emergency telephone number

National Poisons Information Service (United Kingdom)	+44 (0) 3448 920111	24 hr. emergency phone number Healthcare Professionals ONLY
NHS 24	111	Members of Public
Emergency Phone No.	(00-1) 703-527-3887	CHEMTREC (24 hours)
Language(s) spoken:	English	

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

2.1.1 Regulation (EC) No. 1272/2008 (CLP)

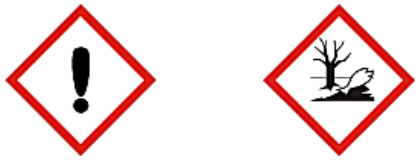
Skin Irrit. 2; H315
Skin Sens. 1; H317
Eye Irrit. 2; H319
Aquatic Chronic 2; H411

2.2 Label elements

According to Regulation (EC) No. 1272/2008 (CLP)

Product name: Epoxylite 813 Part A

Hazard Pictogram(s)



Signal Word(s): WARNING

Contains: Phenol, polymer with formaldehyde, glycidyl ether; Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700).

Hazard Statement(s)	H315: Causes skin irritation. H317: May cause an allergic skin reaction. H319: Causes serious eye irritation. H411: Toxic to aquatic life with long lasting effects.
Precautionary Statement(s)	P264: Wash hands and exposed skin thoroughly after handling. P273: Avoid release to the environment. P280: Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. P302+P352: IF ON SKIN: Wash with plenty of water. P362+P364: Take off contaminated clothing and wash it before reuse. P391: Collect spillage.
Supplemental information	None Known

2.3 Other hazards None Known

SECTION 3: Composition/information on ingredients

3.1 Substances - not applicable.

3.2 Mixtures

EC Classification Regulation (EC) No. 1272/2008 (CLP)

Chemical identity of the substance	%W/W	CAS No.	EC No.	REACH Registration No.	Hazard classification
Phenol, polymer with formaldehyde, glycidyl ether	65 - 75	28064-14-4	608-164-0	Not yet assigned in the supply chain	Skin Sens. 1; H317 Aquatic Chronic 2; H411
Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)	3 - < 5	25068-38-6	500-033-5	Not yet assigned in the supply chain	Skin Irrit. 2; H315 Skin Sens. 1; H317 Eye Irrit. 2; H319 Aquatic Chronic 2; H411

Specific concentration limit (SCL) & M-factor

Chemical identity of the substance	CAS No.	EC No.	Specific concentration limit (SCL)	M-factor
Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)	25068-38-6	500-033-5	Skin Irrit. 2; H315: C ≥ 5 % Eye Irrit. 2; H319 : C ≥ 5 %	-

Note: For full text of H phrases see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

Self-protection of the first aider Use personal protective equipment as required. Wear appropriate personal protective equipment, avoid direct contact. Ensure adequate ventilation Do not breathe dusts or mists. Avoid all contact. Avoid exposure during pregnancy.

inhalation IF INHALED: Remove person to fresh air and keep comfortable for breathing. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or

		waistband. Get medical advice/attention if you feel unwell. If exposed or concerned: Get medical attention/advice.
	Skin contact	IF ON SKIN: Remove contaminated clothing and wash all affected areas with plenty of water. Contaminated clothing should be thoroughly cleaned. If skin irritation or rash occurs: Get medical advice/attention.
	Eye contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if eye irritation develops or persists.
	Ingestion	Rinse mouth. Do NOT induce vomiting. Do not give anything by mouth to an unconscious person. If exposed or concerned: Get medical attention/advice.
4.2	**Most important symptoms and effects, both acute and delayed**	Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation.
4.3	**Indication of any immediate medical attention and special treatment needed**	Treat symptomatically.

SECTION 5: Firefighting measures

5.1	**Extinguishing media**	
	Suitable extinguishing media	As appropriate for surrounding fire. Extinguish preferably with foam, carbon dioxide or dry chemical.
	Unsuitable extinguishing media	Do not use water jet. Direct water jet may spread the fire.
5.2	**Special hazards arising from the substance or mixture**	May decompose in a fire giving off toxic fumes. Carbon monoxide, Carbon dioxide and Phenolics. Susceptible to polymerisation initiated by prolonged heating or the presence of catalyst.
5.3	**Advice for firefighters**	Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Do not breathe fumes. Keep containers cool by spraying with water if exposed to fire. Avoid run off to waterways and sewers.

SECTION 6: Accidental release measures

6.1	**Personal precautions, protective equipment and emergency procedures**	Ensure adequate ventilation Avoid breathing vapours. Avoid all contact. In case of inadequate ventilation wear respiratory protection. Use personal protective equipment as required. See Section: 8.
6.2	**Environmental precautions**	Avoid release to the environment. Do not allow to enter drains, sewers or watercourses.
6.3	**Methods and material for containment and cleaning up**	Ensure suitable personal protection during removal of spillages. Do not use cloths for mopping up. Flood with water to complete polymeristaion and scrape off the floor. Cured material can be disposed of as non-hazardous waste.
6.4	**Reference to other sections**	See Section: 8, 13

SECTION 7: Handling and storage

7.1	**Precautions for safe handling**	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Ensure adequate ventilation Avoid all contact. Avoid breathing dust/mist. Use personal protective equipment as required. See Section: 8. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Susceptible to polymerisation initiated by prolonged heating or the presence of catalyst. bulk: May undergo autopolymerisation.
7.2	**Conditions for safe storage, including any incompatibilities**	Store in a cool/low-temperature, well-ventilated (dry) place away from heat and ignition sources. Keep away from heat and direct sunlight.
	storage temperature	Ambient
	Storage life	Stable under normal conditions
	Incompatible materials	Keep away from: Acids, strong bases, Strong Oxidizing agents and halogenated compounds
7.3	**Specific end use(s)**	See Section: 1.2.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

8.1.1 Occupational exposure limits

United Kingdom

SUBSTANCE	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m³)	STEL (ppm)	STEL (mg/m³)	Notes
Silica, amorphous inhalable dust respirable dust	-	- -	6 2.4	- -	- -	-
Silica, respirable crystalline (respirable fraction)	-	-	0.1	-	-	Carc (where generated as a result of a work process)
Talc, respirable dust	14807-96-6	-	1	-	-	

Source: UK WEL: Workplace Exposure Limit (UK HSE EH40)

Ireland

SUBSTANCE	CAS No.	Occupational Exposure Limit Value (8-hour reference period)		Occupational Exposure Limit Value (15-minute reference period)		Notes
		ppm	mg/m³	ppm	mg/m³	
Silica, amorphous inhalable dust respirable dust	-	- -	6 2.4	- -	- -	-
Silica, crystalline, respirable dust (Quartz)	-	-	0.1	-	-	BOELV
Talc Total inhalable dust respirable dust	14807-96-6	- -	10 0.8	- -	- -	- -

Source: 2021 Code of Practice for Safety, Health and Welfare at Work (Chemical Agents) Regulation (2001 – 2021) and the Safety, Health and Welfare at Work (Carcinogens) Regulations (2001 – 2019); Health and Safety Authority
Notes: BOELV: binding occupational exposure limit values

8.1.2 Biological Limit Value — Not established

8.1.3 PNECs and DNELs — Not established

8.2 Exposure controls

8.2.1 Appropriate engineering controls — Ensure adequate ventilation Or Use appropriate containment. Atmospheric levels should be controlled in compliance with the occupational exposure limit.

8.2.2 Individual protection measures, such as personal protective equipment — General hygiene measures for the handling of chemicals are applicable. Avoid all contact. Avoid breathing vapours. Wash hands before breaks and after work. Keep work clothes separately. Contaminated clothing should be thoroughly cleaned. Do not eat, drink or smoke at the work place.

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

Eye / face protection

Wear protective eye glasses for protection against liquid splashes. Wear eye protection with side protection (EN166).

Skin protection

Hand protection:

Wear impervious gloves (EN374). Gloves should be changed regularly to avoid permeation problems. Breakthrough time of the glove material: refer to the information provided by the gloves' producer. Recommended: PVC / Nitrile rubber

Body protection:
Wear impervious protective clothing, including boots, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Respiratory protection

Use only in well-ventilated areas. In case of inadequate ventilation wear respiratory protection. A suitable mask with filter type A (EN141 or EN405) may be appropriate.

Thermal hazards — not applicable

8.2.3 Environmental exposure controls — Avoid release to the environment. Do not allow to enter drains, sewers or watercourses.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	Liquid
Colour	Not available
Odour	Not established
Melting point and freezing point	Not established
Boiling point or initial boiling point and boiling range	Not established
Flammability	Not established
Lower and upper explosion limit or lower and upper flammability limit	Not established
Flash point	> 201 ℉/ 94 ℃ (literature value)
Auto-ignition temperature	Not established
Decomposition temperature	Not established
pH	Not established
Kinematic viscosity	> 22 mm2/s @104 ℉ (40 ℃)
Solubility	Not established
Partition coefficient: n-octanol/water (log value)	not applicable
Vapour pressure	Not established
Density and/or relative density	1.4090 g/cm3 @ 77 ℉ (25 ℃)
Relative vapour density	Not established
Particle characteristics	not applicable

9.2 Other information — No information available.

SECTION 10: Stability and reactivity

10.1	**Reactivity**	Stable under normal conditions
10.2	**Chemical stability**	Stable under normal conditions
10.3	**Possibility of hazardous reactions**	Susceptible to polymerisation initiated by prolonged heating or the presence of catalyst. bulk: May undergo autopolymerisation.
10.4	**Conditions to avoid**	Keep away from heat, sources of ignition and direct sunlight.
10.5	**Incompatible materials**	Keep away from: Acids, strong bases, Strong Oxidizing agents and halogenated compounds
10.6	**Hazardous decomposition products**	May decompose in a fire giving off toxic fumes. Carbon monoxide, Carbon dioxide and Phenolics.

SECTION 11: Toxicological information

11.1	**Information on hazard classes as defined in Regulation (EC) No 1272/2008**	
	Acute toxicity	
	Ingestion	Mixture: Based upon the available data, the classification criteria are not met. Acute Toxicity Estimate Mixture Calculation: estimated LD50 > 2000 mg/kg bw/day
	inhalation	Mixture: Based upon the available data, the classification criteria are not met. Acute Toxicity Estimate Mixture Calculation: estimated LC50 > 20 mg/L (Vapour)
	Skin contact	Mixture: Based upon the available data, the classification criteria are not met. Acute Toxicity Estimate Mixture Calculation: estimated LD50 > 2000 mg/kg bw/day
	Skin corrosion/irritation	Mixture: Skin Irrit. 2: H316: Causes mild skin irritation.
	Phenol, polymer with formaldehyde, glycidyl ether	Skin Irrit. 2: H316: Causes mild skin irritation. No data available EU classification and labelling inventory
	Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)	Skin Irrit. 2: H316: Causes mild skin irritation. Harmonised Classification
	Serious eye damage/irritation	Mixture: Eye Irrit. 2: H319: Causes serious eye irritation. Eye Irrit. 2: H319: Causes serious eye irritation.
	Phenol, polymer with formaldehyde, glycidyl ether	No data available EU classification and labelling inventory
	Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)	Eye Irrit. 2: H319: Causes serious eye irritation. Harmonised Classification
	Respiratory or skin sensitisation	Mixture: Skin Sens. 1: H317: May cause an allergic skin reaction. Skin Sens. 1: H317: May cause an allergic skin reaction.
	Phenol, polymer with formaldehyde, glycidyl ether	No data available EU classification and labelling inventory
	Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)	Skin Sens. 1: H317: May cause an allergic skin reaction. Harmonised Classification
	Germ cell mutagenicity	Mixture: Based upon the available data, the classification criteria are not met.
	Carcinogenicity	Mixture: Based upon the available data, the classification criteria are not met.
	Reproductive toxicity	Mixture: Based upon the available data, the classification criteria are not met.
	STOT - single exposure	Mixture: Based upon the available data, the classification criteria are not met.
	STOT - repeated exposure	Mixture: Based upon the available data, the classification criteria are not met.
	Aspiration hazard	Mixture: Based upon the available data, the classification criteria are not met.
11.2	**Information on other hazards**	
11.2.1	Endocrine disrupting properties	This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.
11.2.2	Other information	None

SECTION 12: Ecological information

12.1	**Toxicity**	Mixture: Based upon the available data, the classification criteria are not met.
12.2	**Persistence and degradability**	No data for the mixture as a whole.
	Phenol, polymer with formaldehyde, glycidyl ether	No data available
	Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)	Little or no biodegradation has been observed ECHA registration dossier
12.3	**Bioaccumulative potential**	No data for the mixture as a whole.
	Phenol, polymer with formaldehyde, glycidyl ether	No data available
	Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)	No data available
12.4	**Mobility in soil**	No data for the mixture as a whole.
	Phenol, polymer with formaldehyde, glycidyl ether	No data available
	Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)	No data available

12.5	**Results of PBT and vPvB assessment**	Not classified as PBT or vPvB.
12.6	**Endocrine disrupting properties**	This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.
12.7	**Other adverse effects**	None known

SECTION 13: Disposal considerations

13.1	**Waste treatment methods**	This material and its container must be disposed of as hazardous waste. Dispose of wastes in an approved waste disposal facility. Directive 2008/98/EC (Waste Framework Directive): HP4, HP14
13.2	**Additional information**	Dispose of contents in accordance with local, state or national legislation.

SECTION 14: Transport information

		ADR/RID	**ADN**	**IMDG**	**IATA/ICAO**
14.1	**UN number or ID number**	UN 3082			
14.2	**UN proper shipping name**	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (Phenol, polymer with formaldehyde, glycidyl ether and Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700))			
14.3	**Transport hazard class(es)**	9	9	9	9
14.4	**Packing group**	III	III	III	III
14.5	**Environmental hazards**	Classified as a Marine Pollutant./ Environmentally hazardous substance			
14.6	**Special precautions for user**	See Section: 2			
14.7	**Maritime transport in bulk according to IMO instruments**	No information available.			
14.8	**Additional information**	No information available.			

SECTION 15: REGULATORY INFORMATION

15.1	**Safety, health and environmental regulations/legislation specific for the substance or mixture**	
15.1.1	**EU regulations**	
	Use restriction according to REACH annex XVII, no.:	Product: Entry number: 3
	Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]	E2
	Directive 2010/75/EU on industrial emissions [Industrial Emissions Directive]	This substance/mixture does not contain any volatile organic compounds in the sense of Directive 2010/75/EU.
	Restrictions of occupation:	Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.
	To follow:	Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work
15.1.2	**National regulations**	
	Germany	
	Water hazard class (WGK)	Obviously hazardous to water (WGK 2) (Self-classification (mixture; calculation rule).)
15.2	**Chemical Safety Assessment**	A REACH chemical safety assessment has not been carried out.

SECTION 16: Other information

The following sections contain revisions or new statements: New SDS Regulation 2020/878 format, all sections have been updated to include new information. Please review SDS with care.

References:

Existing Safety Data Sheet (SDS), Harmonised Classification(s) for Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700) (CAS# 25068-38-6)

Existing ECHA registration(s) for Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700) (CAS# 25068-38-6)

The classification and labelling inventory for Phenol, polymer with formaldehyde, glycidyl ether (CAS# 28064-14-4), Cyrstalline silica (CAS# 14808-60-7) and Magnesium silicate talc (CAS# 14807-96-6).

EU Classification: This Safety Data Sheet was prepared in accordance with EC Regulation (EC) 1907/2006 (REACH), 1272/2008 (CLP) & 2020/878

Classification of the substance or mixture According to Regulation (EC) No. 1272/2008 (CLP)	Classification procedure
Skin Irrit. 2; H315	Threshold Calculation
Skin Sens. 1; H317	Threshold Calculation
Eye Irrit. 2; H319	Threshold Calculation
Aquatic Chronic 2; H411	Summation Calculation

Legend

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DNEL	Derived no effect level
EU	European Union
EC	European Community
ECHA	European Chemicals Agency
EN	European Standard
EC50	Effect concentration; 50 %
IATA	International Air Transport Association
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
LC50	Lethal concentration at which 50% of the population is killed
LD50	Lethal dose at which 50% of the population is killed
LTEL	Long term exposure limit
NOAEC	No observed adverse effect concentration
NOEC	No Observed Effect Concentration
OECD	Organisation for Economic Cooperation and Development
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
TWA	Time Weighted Average
STEL	Short term exposure limit
vPvB	very Persistent and very Bioaccumulative
UN	United Nations
VOC	Volatile organic compounds

Hazard classification / Classification code:	Hazard Statement(s)
Skin Irrit. 2; Skin corrosion/irritation, Category 2	H315: Causes skin irritation.
Skin Sens. 1; Skin Sensitisation, Category 1	H317: May cause an allergic skin reaction.
Eye Irrit. 2; eye Irritation, Category 2	H319: Causes serious eye irritation.

Aquatic Chronic 2; Hazardous to the aquatic environment, Chronic , Category 2	H411: Toxic to aquatic life with long lasting effects.

Training advice: Consideration should be given to the work procedures involved and the potential extent of exposure as they may determine whether a higher level of protection is required.

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