

2 COMPONENT COATING FOR FLOORS 3823

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product Detail : 3823 - 2 component coating for floors
Application of the substance / the preparation: Surface coating
Manufacturer / supplier: Holland Shielding Systems B.V.
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2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008



GHS05 corrosion
Eye Dam. 1 H318 Causes serious eye damage.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008	The product is classified and labelled according to the CLP regulation.
Hazard pictograms	GHS05
Signal word	Danger
Hazard-determining components of labelling	Phenol, 4,4'-(1-methylethylidene) bis-, polymer with chloromethyl)oxirane, reaction products with ethylenediamine, epichlorohydrinpolyethylene Glycol polymer, crecol glycidyl ether and 1, 4-bis(methylol) Cyclohexanediglycidyl ether Propionic acid
Hazard statements	Causes serious eye damage
Precautionary statements	Wear protective gloves/protective clothing/eye protection/face protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. Immediately call a POISON CENTER/doctor

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable

vPvB: Not applicable








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3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Chemical characterization: Mixtures

Description: Mixture of Substances listed below with nonhazardous additions.

Dangerous components:

	Phenol, 4,4'-(1-methylethylidene) bis-,polymer with chloromethyl) oxirane, reaction products with ethylenediamine, epichlorohydrinpolyethylene Glycol polymer, cresol glycidyl ether and 1,4-bis(methylol) Cyclohexanediglycidyl ether 	25-50%
CAS: 39443-66-8	Diglycidylether of polyethyleneglycol 	2,5-10%
CAS: 14228-73-0	Cyclohexanedimethanol diglycidylether 	2,5-10%
CAS: 79-09-4 EINECS: 201-176-3	Propionic acid  Flam. Liq. 3, H226;  Skin Corr. 1B H314; Eye Dam. 1, H318;  STOT SE 3, H335	2,5-10%
	Alkoxyated alcohol Aquatic chronic 3, H412	≤ 2,5%
CAS: 112-34-5 EINECS: 203-961-6	2-(2-butoxyethoxy) ethanol 	≤ 2,5%

Additional information: For the wording of the listed risk phrases refer to section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General information	Immediately remove any clothing soiled by the product.
After Inhalation	Supply fresh air; consult doctor in case of complaints. In case of unconsciousness place patient stably in side position for transportation. Supply fresh air; consult doctor in case of complaints.
After skin contact	Immediately wash with water and soap and rinse thoroughly. Remove contaminated clothing.
After eye contact	Rinse opened eye for several minutes under running water. Then consult doctor.
After swallowing	Do not induce vomiting; call for medical help immediately and show safety datasheet or label.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing agents: CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

5.2 Special hazards arising from the substance or mixture

No further relevant information available.

5.3 Advice for firefighters

Protective equipment: Put on breathing apparatus

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

6.2 Environmental precautions

Dilute with plenty of water

Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

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Use neutralising agent

Dispose contaminated material as waste according to item 13.

6.4 Reference to other sections

See section 7 for information on safe handling.

See section 8 for information on personal protection equipment.

See section 13 for disposal information.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Keep receptacles tightly sealed.

Hygiene measures:

Wash hands before breaks and at the end of your workday.

Use protective skin cream before handling the product.

Information about fire-and explosion protection:

No special requirements.

7.2 Conditions for safe storage including any incompatibilities

Storage

Requirements to be met by storerooms and receptacles: No special requirements.

Information about storage in one common storage facility: Not required.

Further information about storage conditions

Keep receptacle tightly sealed and in a well-ventilated place.

Keep away from heat.

7.3 Specific end use(s)

No further relevant information available.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Additional information about design of technical facilities: No further data; see item 7.

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace		
79-09-4 propionic acid		
WEL	Short-term value: 46 mg/m ³ , 15 ppm Long-term value: 31 mg/m ³ , 10 ppm	
112-34-5 2-(2-butoxyethoxy) ethanol		
WEL	Short-term value: 101.2 mg/m ³ , 15 ppm Long-term value: 67.5 mg/m ³ , 10 ppm	
DNELs		
112-34-5 2-(2-butoxyethoxy)ethanol		
Oral	DNEL	1.25 mg/day (con)
Dermal	DNEL	10 mg/day (con)
		20 mg/day (con)
Inhalative	DNEL	34 mg/m ³ (con)
		67.5 mg/mg ³ (con)

Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls

Personal protective equipment

General protective and hygiene measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Respiratory protection

If spraying this product, an ABEK respirator to EN141 and EN405 is normally sufficient. If in doubt, consult a respirator manufacturer and show this datasheet.

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General protective and hygiene measures	Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.
Respiratory protection	If spraying this product, an ABEK respirator to EN141 and EN405 is normally sufficient. If in doubt, consult a respirator manufacturer and show this datasheet.
Protection of hands	 Protective gloves The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.
Material of gloves	The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
Penetration time of the glove material	The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
Eye protection	 Tightly sealed goggles.

9. PHYSICAL AND CHEMICAL PROPERTIES

chemical properties

General information	
Form	Liquid
Colour	According to product specification
Odour	Characteristic
Odour threshold	Not determined.
pH Value	
Change in condition	
Melting point/Melting range	Undetermined
Boiling point/Boiling range	100°C
Flash point	Not applicable.
Flammability (solid, gaseous)	Not applicable.
Ignition temperature	
Decomposition temperature	Not determined.
Self-igniting	Product is not self-igniting.
Danger of explosion	Product does not present an explosion hazard.
Explosion limits	
Lower	Not determined.
Upper	Not determined.
Vapour pressure at 20°C	23 Pa
Density at 20°C	1.04g/cm ³
Relative density	Not determined.
Vapour density	Not determined.
Evaporation rate	Not determined.
Solubility in/ Miscibility with water	Fully miscible.
Partition coefficient (n-octanol/water)	Not determined.
Viscosity	
Dynamic at 20°C	200 mPas
Kinematic	Not determined.
Solvent content	
Organic solvents	2.2%
Water	38.7%
Solids content	31.3%



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9.2 other information

No further relevant information available.

10. STABILITY AND REACTIVITY

10.1 Reactivity

No further relevant information available.

10.2 Chemical stability

Thermal decomposition/ conditions to be avoided: No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions

No dangerous reactions known.

10.4 Conditions to avoid

No further relevant information available.

10.5 Incompatible materials

No further relevant information available.

10.6 Hazardous decomposition products

No dangerous decomposition products when stored and handled correctly.

11. TOXICOLOGICAL INFORMATION

11.1 Information of toxicological effects

Acute toxicity Based on available data, the classification criteria are not met.

LD/LC50 values relevant for classification:		
112-34-5 2-(butoxyethoxy)ethanol		
Oral	LD50	>2000mg/kg (rat)
Dermal	LD50	>2000mg/kg (rat)

Primary irritant effect:

Skin corrosion/irritation

Based on available data, the classification criteria are not met.

Serious eye damage/ irritation

Causes serious eye damage.

Respiratory or skin sensitisation

Based on available data the classification criteria are not met.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Germ cell mutagenicity Based on available data, the classification criteria are not met.

Carcinogenicity Based on available data, the classification criteria are not met.

Reproductive toxicity Based on available data, the classification criteria are not met.

STOT-single exposure Based on available data, the classification criteria are not met.

STOT-repeated exposure Based on available data, the classification criteria are not met.

Aspiration hazard Based on available data, the classification criteria are not met.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Aquatic toxicity: No further relevant information available.

12.2 Persistence and degradability

No further relevant information available.

12.3 Bioaccumulative potential

No further relevant information available.

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12.4 Mobility in soil No further relevant information available.

Additional ecological information:

General notes:

Water hazard class 1 (German Regulations) (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
Must not reach sewage water or drainage ditch undiluted or unneutralized.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6 other adverse effects

No further relevant information available.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Uncleaned packaging

Recommendation: Disposal must be made according to official regulations.

Recommended cleansing agents: Water, if necessary together with cleansing agents

14. TRANSPORT INFORMATION

14.1 UN-Number

ADR, ADN, IMDG, IATA Void

14.2 UN proper shipping name

ADR, ADN, IMDG, IATA Void

14.3 Transport hazard class(es)

ADR, ADN, IMDG, IATA Void

Class

14.4 Packing group

ADR, IMDG, IATA Void

14.5 Environmental hazards:

Not applicable

14.6 Special precautions for user

Not applicable

14.7 Transport in bulk according to Annex II of Marpol and the IBC code

Not applicable

UN "Model Regulation" Void

15. REGULATORY INFORMATION

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

Directive 2012/18/EU

Named dangerous substances – ANNEX I None of the ingredients is listed.

National regulations:

Technical instructions (air):

class	Share in %
Wasser	38.7
NK	2.2

Waterhazard class: Water hazard class 1 (Self-assessment): hazardous for water.

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15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

16. OTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases

H226	Flammable liquid and vapour
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H412	Harmful to aquatic life with long lasting effects.

Department issuing MSDS: Product safety department: LABRATORY

Abbreviations and acronyms:

ADR	Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG	International Maritime Code for Dangerous Goods
IATA	International Air Transport Association
GHS	Globally Harmonised System of Classification and Labelling of Chemicals
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
CAS	Chemical Abstracts Service (division of the American Chemical Society)
DNEL	Derived No-Effect Level
LC50	Lethal Concentration
LD50	Lethal dose, 50 percent
PBT	Persistent, Bioaccumulative and Toxic
vPvB	very Persistent and very Bioaccumulative
Flam. Liq. 3	Flammable liquids, Hazard Category 3
Skin Corr. 1B	Skin corrosion/irritation, Hazard Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Hazard Category 2
Eye Dam. 1	Serious eye damage/irritation, Hazard Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Hazard Category 2
Skin sens. 1	Sensitisation-Skin, Hazard Category 1
STOT SE 3	Specific target organ toxicity – Single exposure, Hazard category 3
Aquatic Chronic 2	Hazardous to the aquatic environment- Chronic Hazard, Category 2