

(EC) 1907/2006 (REACH), Annex II, as amended by Regulation (EU) 2021/848

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

- 1.1 Product identifier
- · Trade name: NormAcid GLU Comp. B
- · **UFI:** Q6FA-QQFY-X002-R5C8
- 1.2 Relevant identified uses of the substance or mixture and uses advised against
- Sector of Use Coating
- Application of the substance / the mixture
- 2-comp. epoxy paint, Comp. B Uses in Coatings - Industrial use Uses in Coatings - Professional use
- 1.3 Details of the supplier of the safety data sheet
   Manufacturer/Supplier: Nor-Maali Oy
- Vanhatie 20, 15240 Lahti, FINLAND
- · Further information obtainable from: MSDS (Nor-Maali Oy) tel.+358 3 874 650, sds@nor-maali.fi
- 1.4 Emergency telephone number: Contact National Poison Center

# **SECTION 2: Hazards identification**

### · 2.1 Classification of the substance or mixture

Product definition: mixture

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

GHS05 corrosion

Skin Corr. 1H314 Causes severe skin burns and eye damage.Eye Dam. 1H318 Causes serious eye damage.

GHS09 environment

Aquatic Acute 1H400 Very toxic to aquatic life.Aquatic Chronic 1H410 Very toxic to aquatic life with long lasting effects.

GHS07

Acute Tox. 4H302 Harmful if swallowed.Skin Sens. 1H317 May cause an allergic skin reaction.

· 2.2 Label elements

#### · Labelling according to Regulation (EC) No 1272/2008

- The product is classified and labelled according to the GB CLP regulation.
- Hazard pictograms



#### · Signal word Danger

- · Hazard-determining components of labelling:
- Benzyl alcohol
- 1,3-Benzenedimethanamine

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(Contd. of page 1) 4,4'-lsopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with ethylenediamine Hazard statements H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. H317 May cause an allergic skin reaction. H410 Very toxic to aquatic life with long lasting effects. Precautionary statements P261 Avoid breathing mist/vapours/spray. P280 Wear protective gloves/protective clothing/eye protection/face protection. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER/doctor. · 2.3 Other hazards · Results of PBT and vPvB assessment · PBT: Not applicable.

• **vPvB:** Not applicable.

## **SECTION 3: Composition/information on ingredients**

#### · 3.2 Mixtures

· Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous components:			
CAS: 100-51-6	Benzyl alcohol	25 - 60%	
EINECS: 202-859-9 Reg.nr.: 01-2119492630-38-	Acute Tox. 4, H302; Acute Tox. 4, H332		
CAS: 57214-10-5 NLP: 500-137-0	Formaldehyde, polymer with 1,3-benzenedimethanamine and phenol	10 - 50%	
Reg.nr.: 01-2119966906-20-	Aquatic Acute 1, H400; Aquatic Chronic 1, H410		
CAS: 1477-55-0	1,3-Benzenedimethanamine	2.5 - 25%	
EINECS: 216-032-5 Reg.nr.: 01-2119480150-50-	Skin Corr. 1A, H314; Eye Dam. 1, H318; Acute Tox. 4, H302; Skin Sens. 1, H317; Aquatic Chronic 3, H412		
CAS: 72480-18-3 NLP: 500-253-1	4,4'-Isopropylidenediphenol, oligomeric reaction products with 1- chloro-2,3-epoxypropane, reaction products with ethylenediamine	2.5 - 10%	
Reg.nr.: 01-2120766318-46-	Skin Corr. 1, H314; Eye Dam. 1, H318; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H302; Skin Sens. 1, H317		

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

# **SECTION 4: First aid measures**

#### · 4.1 Description of first aid measures

· General information:

Never give anything by mouth or induce vomiting to an unconscious person or a person who has convulsions. • After inhalation:

Remove person to fresh air, keep patient warm and at rest. If breathing is irregular, call national emergency number, if needed start giving artificial respiration and seek medical advice.

• After 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.

After eye contact:

Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open.

After swallowing:

If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do not induce vomiting.

· Information for doctor: Treatment according to symptoms.

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- · 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
- No further relevant information available.

# **SECTION 5: Firefighting measures**

#### · 5.1 Extinguishing media

- Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
- · For safety reasons unsuitable extinguishing agents: Water with full jet
- 5.2 Special hazards arising from the substance or mixture

In a fire or if heated, a pressure increase will occur and the container may burst.

5.3 Advice for firefighters

Evacuate people from danger area and deny access to area. Remove containers from danger area and try to cool containers which cannot be removed safely. This material is toxic to aquatic life with long lasting effects. Fire water contamined with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Protective equipment: Compressed air respirator and protective clothing.

## SECTION 6: Accidental release measures

#### · 6.1 Personal precautions, protective equipment and emergency procedures

Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

6.2 Environmental precautions:

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

6.3 Methods and material for containment and cleaning up:

Absorb liquid components with liquid-binding material (sand, peat or other absorbent material).

Ensure adequate ventilation.

- 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.

## **SECTION 7: Handling and storage**

#### · 7.1 Precautions for safe handling

Handling must be organised so that skin contact with the product and splashes to eyes can be avoided.

- · 7.2 Conditions for safe storage, including any incompatibilities
- Storage:
- Requirements to be met by storerooms and receptacles:

Store in accordance with local regulations. 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. Keep away from: oxidising agents, strong alkalis, strong acids. No smoking. Prevent unauthorised access. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not empty into drains.

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

- Further information about storage conditions: Keep container tightly sealed.
- 7.3 Specific end use(s) No further relevant information available.

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SECTIO	N 8: E	Exposure controls/personal protection
8.1 Contro	ol para	meters
Ingredien	ts with	limit values that require monitoring at the workplace:
100-51-6		
HTP Long	g-term \	/alue: 45 mg/m³, 10 ppm
		enzenedimethanamine
		value: 0.1 mg/m³
Skin		
DNELs		
100-51-6	-	
Dermal	DNEL	8 mg/kg bw/day (Workers - Long-term systemic effects)
		40 mg/kg bw/day (Workers - acute systemic effects)
Inhalative	DNEL	22 mg/m3 (Workers - Long-term systemic effects)
		110 mg/m3 (Workers - acute systemic effects)
		enzenedimethanamine
Dermal		330 μg/kg bw/day (Workers - Long-term systemic effects)
Inhalative	DNEL	1.2 mg/m3 (Workers - Long-term systemic effects)
		200 mg/m3 (Workers - Long-term local effects)
PNECs		
100-51-6	Benzyl	alcohol
		ng/L (Freshwater)
0.1	- 0.10	2 mg/L (Marine water)
39	mg/L (	Sewage treatment)
PNEC 5.2	27 mg/k	g dwt (Fresh water sediment)
0.5	527 mg/	/kg dwt (Marine water sediment)
PNEC 0.4	156 mg/	/kg (Soil)
1477-55-0	1,3-Be	enzenedimethanamine
PNEC 10	mg/L (	Sewage treatment)
PNEC 12	.4 mg/k	g dwt (Fresh water sediment)
1.2	24 mg/k	g dwt (Marine water sediment)
PNEC 2.4		
		Freshwater)
9.4	1 μg/L (	Marine water)
Additiona The inform		nation: s based on the valid lists at the time of manufacture (Finland 654/2020).
8.2 Expos		introis ineering controls No further data; see item 7.
		ction measures, such as personal protective equipment
General p	rotecti	ve and hygienic measures:
Provide ad	dequate	e ventilation. Where reasonably practicable, this should be achieved by the use of local
		n and good general extraction. If these are not sufficient to maintain concentrations of
Respirato		solvent vapours below the HTP, suitable respiratory protection must be worn.
		sufficient or if workers are exposed to concentrations above the exposure limit they must use
half- or ful	l mask	with gas filter A (brown, organic substances), and when grinding P2 (IIb) -type dust filter.
		ned filter (gas & dust) A2-P2 must be used when spraying. In the continuous long-term work
is recommor such).	ended	to use motored air protector or separative protector (fresh air hood or compressed air hood
or such).		(Contd. on page



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### · Hand protection



Protective gloves

- Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation **Material of gloves**
- Wear suitable gloves tested to EN374.
- May be used, gloves(breakthrough time) 4 8 hours: butyl rubber, nitrile rubber
- Penetration time of 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/face protection



Tightly sealed goggles

The eye flushing device should be located near the the paint work area. **Body protection:** Protective work clothing

## **SECTION 9: Physical and chemical properties**

0.4 Information on basis abuniad and the state	
9.1 Information on basic physical and chemical pro	operties
General Information	
· Colour:	Yellowish
· Odour:	Strong
· Odour threshold:	Not determined.
<ul> <li>Melting point/freezing point:</li> </ul>	Undetermined.
• Boiling point or initial boiling point and boiling	
range	> 107 °C
· Flammability	Not applicable.
• Lower and upper explosion limit	
· Lower:	1.3 Vol %
· Upper:	13 Vol %
· Flash point:	101 °C
Ignition temperature:	395 - 405 °C
Decomposition temperature:	Not determined.
pH	Not determined.
· Viscosity:	
<ul> <li>Kinematic viscosity at 40 °C</li> </ul>	> 20.5 mm²/s
· Dynamic:	Not determined.
· Solubility	
· water:	Not miscible or difficult to mix.
<ul> <li>Partition coefficient n-octanol/water (log value)</li> </ul>	Not determined.
Vapour pressure at 20 °C:	0.1 hPa
Density and/or relative density	
Density at 20 °C:	1.09 g/cm³
Relative density	Not determined.
· Vapour density	Not determined.
9.2 Other information	
· Appearance:	
Form:	Fluid
Important information on protection of health and	
environment, and on safety.	
Auto-ignition temperature:	Product is not selfigniting.
· Explosive properties:	Product does not present an explosion hazard.
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Change in condition		
Evaporation rate	Not determined.	
Information with regard to physical hazard cl	asses	
Explosives	Void	
Flammable gases	Void	
Aerosols	Void	
Oxidising gases	Void	
Gases under pressure	Void	
Flammable liquids	Void	
Flammable solids	Void	
Self-reactive substances and mixtures	Void	
Pyrophoric liquids	Void	
Pyrophoric solids	Void	
Self-heating substances and mixtures	Void	
Substances and mixtures, which emit flamma	able	
gases in contact with water	Void	
Oxidising liquids	Void	
Oxidising solids	Void	
Organic peroxides	Void	
Corrosive to metals	Void	
Desensitised explosives	Void	

## **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

- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications. • 10.3 Possibility of hazardous reactions
- Under normal conditions of storage and use, hazardous decomposition products should not be produced. • 10.4 Conditions to avoid
- Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.
- 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products:

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Acute tox Harmful if	i <b>city</b> swallowed		
LD/LC50	values rele	evant for classification:	
100-51-6 E	Benzyl alc	ohol	
Oral	LD50	1,620 mg/kg (rat)	
Dermal	LD50	> 2,000 mg/kg (rabbit)	
Inhalative	LC50/4 h	> 4,178 mg/l (rat)	
1477-55-0	1,3-Benze	enedimethanamine	
Oral	LD50	930 mg/kg (rat)	
Dermal	LD50	3,100 mg/kg (rat)	
Inhalative	LC50/4 h	1,340 mg/l (rat)	
72480-18-		propylidenediphenol, oligomeric reaction products with 1-chloro-2,3- opane, reaction products with ethylenediamine	
Oral	LD50	> 300 - < 2,000 mg/kg (rat)	



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#### • Serious eye damage/irritation Causes serious eye damage.

- Respiratory or skin sensitisation
- May cause an allergic skin reaction.
- 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.
- Other information (about experimental toxicology):

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. Solvents may cause some of the above effects by absorption through the skin. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Repeated or prolonged contact with the preparation 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. Swallowing may cause nausea, diarrhea, vomiting, gastro-intestinal irritation and chemical pneumonia.

- 11.2 Information on other hazards
- Endocrine disrupting properties
- None of the ingredients is listed.

#### **SECTION 12: Ecological information**

#### · 12.1 Toxicity

# · Aquatic toxicity:

**100-51-6 Benzyl alcohol** 72-h EC50 770 mg/L (Algae) (OECD TG 201)

48-h EC50 230 mg/L (Daphnia magna) (OECD TG 202)

96-h LC50 460 mg/L (Fish) (EPA OPP 72-1)

57214-10-5 Formaldehyde, polymer with 1,3-benzenedimethanamine and phenol

- 96-h LC50 0.5 1 mg/L (Oncorhynchus mykiss)
- 1477-55-0 1,3-Benzenedimethanamine
- 72-h EC50 20.3 mg/L (Algae)
- 48-h EC50 15.2 mg/L (Daphnia magna)
- 96-h LC50 87.6 mg/L (Fish)

#### 12.2 Persistence and degradability

Biodegradation:

Benzyl alcohol: readily

- 12.3 Bioaccumulative potential Benzyl alcohol: LogPow = 1,1 (low)
- 12.4 Mobility in soil No further relevant information available.
- 12.5 Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · vPvB: Not applicable.
- · 12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

12.7 Other adverse effects No further relevant information available.

## **SECTION 13: Disposal considerations**

- 13.1 Waste treatment methods
- Recommendation

Do not allow to enter drains or watercourses. Material and/or container must be disposed of as hazardous waste.

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#### · European waste catalogue

08 01 11\* waste paint and varnish containing organic solvents or other hazardous substances

· Uncleaned packaging:

· Recommendation:

Empty, dry paint containers (hole made to the bottom) should be taken to collection centres for metallic paint packages. If this collecting/recycling centre doesn't exist, containers can be taken to a local dump pit. For more information contact your local waste disposal authorities or paint deliverer.

14.1 UN number or ID number ADR, IMDG, IATA	UN3066
14.2 UN proper shipping name ADR IMDG IATA	PAINT, ENVIRONMENTALLY HAZARDOUS PAINT, MARINE POLLUTANT Marine Pollutant Chemical: Formaldehyde, polymer with 1,3-benzenedimethanamine and phenol PAINT
14.3 Transport hazard class(es)	
ADR, IMDG	
Class	8 Corrosive substances.
Class	8 Corrosive substances.
14.4 Packing group ADR, IMDG, IATA	III
14.5 Environmental hazards: Marine pollutant: Special marking (ADR):	Product contains environmentally hazardous substance Formaldehyde, polymer with 1,3-benzenedimethanamin and phenol Yes The environmental hazardous mark is only applicable for packages containing more than 5 litres of liquids. Symbol (fish and tree)
14.6 Special precautions for user Hazard identification number (Kemler code): EMS Number:	Warning: Corrosive substances. 80 F-A,S-B
14.7 Maritime transport in bulk according to IM instruments	
Transport/Additional information:	
ADR Limited quantities (LQ) Transport category Tunnel restriction code	5L 3 E

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·IMDG · Limited quantities (LQ)

**UN "Model Regulation":** 

UN 3066 PAINT, 8, III, ENVIRONMENTALLY HAZARDOUS

# SECTION 15: Regulatory information

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

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- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · Seveso category E1 Hazardous to the Aquatic Environment
- · Qualifying quantity (tonnes) for the application of lower-tier requirements 100 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t
- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

· DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

**REGULATION (EU) 2019/1148** 

Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

· Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

# SECTION 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**

- H302 Harmful if swallowed.
- H314 Causes severe skin burns and eye damage.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H332 Harmful if inhaled.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- H412 Harmful to aquatic life with long lasting effects.
- · Contact: Nor-Maali Oy, tel. +358 3 874 650 or sds@nor-maali.fi
- · Date of previous version: 13.08.2019
- Version number of previous version: 2
- Abbreviations and acronyms:
- Acute Tox. 4: Acute toxicity Category 4 Skin Corr. 1: Skin corrosion/irritation - Category 1

Skin Corr. 1A: Skin corrosion/irritation – Category 1A Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Skin Sens. 1: Skin sensitisation - Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard - Category 1 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3

\* \* Data compared to the previous version altered.

<sup>·</sup> Directive 2012/18/EU