



SAFETY DATA SHEET

Benarx F Epoxy Box



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

Date issued 07.05.2013

1.1. Product identifier

Product name Benarx F Epoxy Box

No requirement for SDS Requirements for safety data sheet lapses because the product is defined as an article under REACH.

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

Use of the substance/preparation Insulation.

1.3. Details of the supplier of the safety data sheet

Company name Beerenberg Corp. AS

Postal address P.O. Box 273 Slåtthaug

Postcode 5851

City Bergen

Country Norway

Tel +47 55 52 66 00

E-mail benarx@beerenberg.com, post@beerenberg.com

Website <http://www.beerenberg.com>

1.4. Emergency telephone number

Emergency telephone Emergency phone:113

SECTION 2: Hazards identification

2.1. Classification of substance or mixture

Substance / mixture hazardous properties Not regarded as a health or environmental hazard under current legislation.

2.2. Label elements

Other Label Information Not classified. Risk phrases shall not be stated.

2.3. Other hazards

Other hazards No information required.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Substance	Identification	Classification	Contents
Reaction product: bisphenol-A-(epichlorhydrin), epoxy resin (number average molecular weight <= 700)	CAS no.: 25068-38-6 EC no.: 500-033-5 Index no.: 603-074-00-8	R43 Xi; R36/38 N; R51, R53 Eye Irrit. 2; H319 Skin Irrit. 2; H315 Skin Sens. 1; H317 Aquatic Chronic 2; H411	
Triphenylphosphate	CAS no.: 115-86-6 EC no.: 204-112-2		
3,6,9-Triazaundecamethylenediamine	CAS no.: 112-57-2 EC no.: 203-986-2	C; R34 Xn; R21/22	

	Index no.: 612-060-00-0	R43 N; R51, R53 Acute tox. 4; H312 Acute tox. 4; H302 Skin Corr. 1B; H314 Skin Sens. 1; H317 Aquatic Chronic 2; H411	
Butan-1-ol	CAS no.: 71-36-3 EC no.: 200-751-6 Index no.: 603-004-00-6 Synonyms: Butan-1-ol	R10 Xn; R22 Xi; R37/38, R41 R67 Flam. Liq. 3; H226 Acute tox. 4; H302 STOT SE 3; H335 Skin Irrit. 2; H315 Eye Dam. 1; H318 STOT SE 3; H336	
Xylene	CAS no.: 1330-20-7 EC no.: 215-535-7 Index no.: 601-022-00-9	R10 Xn; R20/21 Xi; R38 Flam. Liq. 3; H226 Acute tox. 4; H332 Acute tox. 4; H312 Skin Irrit. 2; H315 Note : C	
Ethylbenzene	CAS no.: 100-41-4 EC no.: 202-849-4 Index no.: 601-023-00-4 Synonyms: Ethylbenzene	F; R11 Xn; R20 Flam. Liq. 2; H225 Acute tox. 4; H332	
Isoamyl methyl ketone	CAS no.: 110-12-3 EC no.: 203-737-8 Index no.: 606-026-00-4 Synonyms: 5-Methylhexan-2-one	R10 Xn; R20 Flam. Liq. 3; H226 Acute tox. 4; H332	
Bis(pentamethyl-4-piperidyl)sebacate	CAS no.: 41556-26-7 EC no.: 255-437-1		
n-Butyl acrylate	CAS no.: 141-32-2 EC no.: 205-480-7 Index no.: 607-062-00-3 Synonyms: n-Butyl acrylate	R10 R43 Xi; R36/37/38 Flam. Liq. 3; H226 Eye Irrit. 2; H319 STOT SE 3; H335 Skin Irrit. 2; H315 Skin Sens. 1; H317 Note : D	
Methyl(pentamethyl-4-piperidyl)sebacate	CAS no.: 82919-37-7 EC no.: 280-060-4		
Epoxyresin novolac			
Column headings	CAS no. = Chemical Abstracts Service; EU (Einecs or Elincs number) = European inventory of Existing Commercial Chemical Substances; Ingredient name = Name as specified in the substance list (substances that are not included in the substance list must be translated, if possible). Contents given in; %, %wt/wt, %vol/wt, %vol/vol, mg/m3, ppb, ppm, weight%, vol%		
HH/HF/HE	T+ = Very toxic, T = Toxic, C = Corrosive, Xn = Harmful, Xi = Irritating, E = Explosive, O = Oxidizing, F+ = Extremely flammable, F = Very flammable, N = Environmental hazard		
Substance comments	The Full Text for all R-Phrases and Hazard Statements are Displayed in		

Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General	The first aid measures are given with regard to exposure to dust from mechanical work on the product.
Inhalation	Move the exposed person to fresh air at once. Rinse nose and mouth with water.
Skin contact	Wash skin with soap and water.
Eye contact	Promptly wash eyes with plenty of water while lifting the eye lids.
Ingestion	Immediately rinse mouth and drink plenty of water (200-300 ml).

4.2. Most important symptoms and effects, both acute and delayed

Information for health personnel No information required.

4.3. Indication of any immediate medical attention and special treatment needed

Other Information No information required.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media No information required.

5.2. Special hazards arising from the substance or mixture

Fire and explosion hazards This product is not flammable.

5.3. Advice for firefighters

Fire fighting procedures No specific fire fighting procedure given.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal protection measures Avoid generation and spreading of dust. Ventilate well. Avoid inhalation of dust.

6.2. Environmental precautions

Environmental precautionary measures Should be prevented from entering drains. Avoid spreading dust or contaminated materials.

6.3. Methods and material for containment and cleaning up

Cleaning method Data lacking.

6.4. Reference to other sections

Other instructions See section 7, 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Handling Mechanical processing of epoxy-based products may pose health risks. Grinding shall not be performed during processing. Use work methods which minimise dust production. Avoid inhalation of dust.

7.2. Conditions for safe storage, including any incompatibilities

Storage No special storage precautions noted.

7.3. Specific end use(s)

Specific use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Other Information about threshold Total dust 10 mg/m³

limit values Respirable dust 5 mg/m³

8.2. Exposure controls

Occupational exposure limits Well-ventilated area. The risk of inhalation of dust must be minimised as much as possible. Mechanical processing of epoxy-based products may pose health risks.

Respiratory protection

Respiratory protection Use respiratory equipment with particle filter, type P2. In case of inadequate ventilation or risk of inhalation of vapours, use suitable respiratory equipment with combination filter (type A2/P2).

Hand protection

Hand protection Use suitable protective gloves if risk of skin contact.

Eye / face protection

Eye protection Use tight fitting goggles if dust is generated.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Solid.

9.2. Other information

Other physical and chemical properties

Physical and chemical properties No information required.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity There are no known reactivity hazards associated with this product.

10.2. Chemical stability

Stability Stable under normal temperature conditions and recommended use.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions No recommendation given.

10.4. Conditions to avoid

Conditions to avoid No recommendation given.

10.5. Incompatible materials

Materials to avoid No recommendation given.

10.6. Hazardous decomposition products

Hazardous decomposition products None under normal conditions.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Other information regarding health hazards

General Mechanical processing of epoxy-based products may pose health risks.

Potential acute effects

Inhalation Dust in high concentrations may irritate the respiratory system.

Skin contact Prolonged or repeated contact leads to drying of skin.

Eye contact Dust in the eyes will cause irritation.

Ingestion May cause irritation to the mouth and throat.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity Not classified as dangerous to the environment.

12.2. Persistence and degradability

Persistence and degradability Not applicable.

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

12.4. Mobility in soil

Mobility Data lacking.

12.5. Results of PBT and vPvB assessment

PBT assessment results Not determined.

12.6. Other adverse effects

Other adverse effects / Remarks No information required.

SECTION 13: Disposal considerations**13.1. Waste treatment methods**

Product classified as hazardous waste No

EWC waste code EWC: 070213 waste plastic
EWC: 170604 insulation materials other than those mentioned in 17 06 01 and 17 06 03**SECTION 14: Transport information****14.1. UN number**

Comments Not relevant.

14.2. UN proper shipping name

Comment Not relevant.

14.3. Transport hazard class(es)

Comment Not relevant.

14.4. Packing group

Comment Not relevant.

14.5. Environmental hazards

Comment Not relevant.

14.6. Special precautions for user

Special safety precautions for user No information required.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**Additional information.**

Additional information. Not applicable.

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**Legislation and regulations Dangerous Substance Directive 67/548/EEC.
Dangerous Preparations Directive 1999/45/EC.
Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (REACH).
Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC,

93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

15.2. Chemical safety assessment

Chemical safety assessment performed No

SECTION 16: Other information

List of relevant R-phrases (under headings 2 and 3).	<p>R67 Vapours may cause drowsiness and dizziness. R38 Irritating to skin. R36/37/38 Irritating to eyes, respiratory system and skin. R43 May cause sensitization by skin contact. R34 Causes burns. R51 Toxic to aquatic organisms. R11 Highly flammable. R21/22 Harmful in contact with skin and if swallowed. R22 Harmful if swallowed. R36/38 Irritating to eyes and skin. R10 Flammable. R53 May cause long-term adverse effects in the aquatic environment. R20/21 Harmful by inhalation and in contact with skin. R37/38 Irritating to respiratory system and skin. R41 Risk of serious damage to eyes. R20 Harmful by inhalation.</p>
List of relevant H-phrases (Section 2 and 3).	<p>H318 Causes Serious eye damage. H332 Harmful if inhaled. H302 Harmful if swallowed. H317 May cause an allergic skin reaction. H312 Harmful in contact with skin. H225 Highly flammable liquid and vapour. H314 Causes Severe skin burns and eye damage. H226 Flammable liquid and vapour. H336 May cause drowsiness or dizziness. H411 Toxic to aquatic life with long lasting effects. H319 Causes Serious eye irritation. H315 Causes Skin irritation. H335 May cause respiratory irritation.</p>
Important data sources used to construct the safety data sheet	MSDS supplied by the manufacturer
Responsible for safety data sheet	Beerenberg Corp. AS