

according to Regulation (EC) No 1907/2006

### X - CAST, Part A

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

#### 1.1. Product identifier

X - CAST. Part A

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

#### Use of the substance/mixture

Chemical product for construction and industry.

For use in industrial installations and professional treatment only.

#### Uses advised against

The product is not intended for private use.

### 1.3. Details of the supplier of the safety data sheet

Company name: EPOXIT AS
Street: Våleveien 29
Place: 3083 Holmestrand
Telephone: +47 941 73 363
e-mail: post@epoxit.com
Internet: www.epoxit.com
1.4. Emergency telephone number: +47 225 91 300

#### **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

## Regulation (EC) No. 1272/2008

Hazard categories:

Skin corrosion/irritation: Skin Irrit. 2

Serious eye damage/eye irritation: Eye Irrit. 2 Respiratory or skin sensitisation: Skin Sens. 1

Hazardous to the aquatic environment: Aquatic Chronic 2

Hazard Statements:
Causes skin irritation.
Causes serious eye irritation.
May cause an allergic skin reaction.
Toxic to aquatic life with long lasting effects.

### 2.2. Label elements

## Regulation (EC) No. 1272/2008

# Hazard components for labelling

 $2,2'\hbox{-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]} bisoxirane$ 

Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)]bis(oxirane) and 2,2'-

[methylenebis(4,1-phenyleneoxymethylene)]bis(oxirane) and 2-({2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy}methyl)oxirane oxirane, mono[(C12-14-alkyloxy)methyl] derivs.

Signal word: Warning

Pictograms:





#### **Hazard statements**

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 statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.

P391 Collect spillage.

Special labelling of certain mixtures

EUH205 Contains epoxy constituents. May produce an allergic reaction.

# 2.3. Other hazards

No further relevant information available.



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

#### 3.2. Mixtures

#### Hazardous components

CAS No	Chemical name	Quantity		
	EC No	Index No	REACH No	
	GHS Classification		•	
1675-54-3	2,2'-[(1-methylethylidene)	50 - < 75 %		
	216-823-5	603-073-00-2	01-2119456619-26	
	Skin Irrit. 2, Eye Irrit. 2, S			
	Reaction mass of 2,2'-[methylenebis(4,1-phenyl (oxiran-2-ylmethoxy)benz	10 - < 25 %		
	701-263-0		01-2119454392-40	
	Skin Irrit. 2, Skin Sens. 1,			
68609-97-2	oxirane, mono[(C12-14-a	10 - < 25 %		
	271-846-8	603-103-00-4	01-2119485289-22	
	Skin Irrit. 2, Skin Sens. 1;			

Full text of H and EUH statements: see section 16.

#### **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

#### **General information**

Remove affected person from the danger area and lay down. In case of allergic symptoms, especially in the breathing area, seek medical advice immediately. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

#### After inhalation

Remove casualty to fresh air and keep warm and at rest.

# After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Remove contaminated, saturated clothing immediately. In case of skin irritation, consult a physician.

# After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

### After ingestion

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Let 1 glass of water be drunken in little sips (dilution effect). Do NOT induce vomiting. Call a physician immediately.

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

Allergic reactions

# 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

- alcohol resistant foam.
- Water spray jet.
- Carbon dioxide (CO2).
- Dry extinguishing powder.

#### Unsuitable extinguishing media

- Full water jet.

#### 5.2. Special hazards arising from the substance or mixture

In case of fire may be liberated:

- Carbon monoxide
- Carbon dioxide.
- Nitrogen oxides (NOx).

#### 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.



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#### Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

#### **SECTION 6: Accidental release measures**

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

Wear personal protection equipment (refer to section 8). Safe handling: see section 7. Provide adequate ventilation as well as local exhaustion at critical locations.

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains. Cover drains. Clean contaminated articles and floor according to the environmental legislation. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities

#### 6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Take up mechanically, placing in appropriate containers for disposal.

#### 6.4. Reference to other sections

Personal protection equipment: see section 8

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

#### 7.1. Precautions for safe handling

#### Advice on safe handling

People who suffer from skin sensitization problems, asthma, allergies, chronic or recurring respiratory illnesses should not be deployed in any process using this preparation.

Avoid contact with skin, eyes and clothes. Avoid breathing dust/fume/gas/mist/vapours/spray. Do not eat, drink or smoke when using this product. Use personal protection equipment.

Never use pressure to empty container. Keep/Store only in original container.

Do not allow to enter into surface water or drains.

# Advice on protection against fire and explosion

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

### Further information on handling

Wash hands before breaks and after work. Used working clothes should not be worn outside the work area. Street clothing should be stored separately from work clothing.

### 7.2. Conditions for safe storage, including any incompatibilities

# Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place. Keep/Store only in original container. Protect against direct sunlight.

# Hints on joint storage

Keep away from: Food and feedingstuffs

# Further information on storage conditions

Protect against:

- Frost.
- Humidity.
- Heat

# 7.3. Specific end use(s)

No data available

# **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

# **DNEL/DMEL values**

CAS No	Substance				
DNEL type		Exposure route	Effect	Value	
1675-54-3	2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxii	rane			
,					
68609-97-2	oxirane, mono[(C12-14-alkyloxy)methyl] derivs.				
Worker DNEL, long-term		dermal	systemic	3,9 mg/kg bw/day	
Worker DNEL, long-term		inhalation	systemic	13,8 mg/m³	



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## **PNEC** values

CAS No	Substance				
Environmental c	ompartment	Value			
68609-97-2	oxirane, mono[(C12-14-alkyloxy)methyl] derivs.				
Freshwater		0,0072 mg/l			
Marine water		0,00072 mg/l			
Freshwater sedi	ment	66,77 mg/kg			
Marine sediment 6,677 mg		6,677 mg/kg			
Soil 80,12 mg		80,12 mg/kg			

## Additional advice on limit values

To date, no national critical limit values exist.

# 8.2. Exposure controls

# Appropriate engineering controls

Provide adequate ventilation. If handled uncovered, arrangements with local exhaust ventilation should be used if possible.

## Protective and hygiene measures

Avoid contact with skin, eyes and clothes. Use protective skin cream before handling the product. Remove contaminated, saturated clothing immediately. When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work.

## Eye/face protection

Wear eye protection/face protection.

## Hand protection

Suitable material:

- NBR (Nitrile rubber)
- Butyl caoutchouc (butyl rubber)

DIN-/EN-Norms: DIN-/EN-Norms: EN ISO 374

Use gloves only once. Replace when worn. Use protective skin cream before handling the product.

### Skin protection

For the protection against direct skin contact, body protective clothing is essential (in addition to the usual working clothes).

# Respiratory protection

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190).

## **Environmental exposure controls**

Do not allow to enter into surface water or drains. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

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

# 9.1. Information on basic physical and chemical properties

Physical state: Liquid
Colour: transparent
Odour: characteristic

pH-Value: No data available

Changes in the physical state

Melting point:No data availableInitial boiling point and boiling range:No data availableSublimation point:No data availableSoftening point:No data availablePour point:No data availableFlash point:> 100 °CSustaining combustion:No data available

Flammability

Solid: No data available
Gas: No data available

# **Explosive properties**

No data available



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Lower explosion limits:

Upper explosion limits:

No data available
Ignition temperature:

No data available
No data available

Auto-ignition temperature

Solid: No data available
Gas: No data available
Decomposition temperature: No data available

**Oxidizing properties** 

No data available

Vapour pressure:No data availableVapour pressure:No data availableDensity (at 23 °C):~ 1,1 g/cm³Bulk density:No data availableWater solubility:No data available

Solubility in other solvents

No data available

Partition coefficient:

Viscosity / dynamic:

No data available

~ 750 mPa·s

(at 23 °C)

Viscosity / kinematic:No data availableFlow time:No data availableVapour density:No data availableEvaporation rate:No data available

# 9.2. Other information

No data available

## **SECTION 10: Stability and reactivity**

## 10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

#### 10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

# 10.3. Possibility of hazardous reactions

Reaction with:

- Amines.
- Acid.
- Alkali (lye)

# 10.4. Conditions to avoid

No data available

### 10.5. Incompatible materials

No data available

## 10.6. Hazardous decomposition products

Gases/vapours, irritant

# **SECTION 11: Toxicological information**

# 11.1. Information on toxicological effects

### Acute toxicity

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



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CAS No	Chemical name					
	Exposure route	Dose	Species	Source	Method	
1675-54-3	2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane					
	oral	LD50 15000 mg/kg	Rat			
	dermal	LD50 23000 mg/kg	Rabbit			
	Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)]bis(oxirane) and 2,2'- [methylenebis(4,1-phenyleneoxymethylene)]bis(oxirane) and 2-({2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy}methyl)oxirane					
	oral	LD50 > 5000 mg/kg	Rat			
	dermal	LD50 > 2000 mg/kg	Rat			
68609-97-2	oxirane, mono[(C12-14-alkyloxy)methyl] derivs.					
	dermal	LD50 > 10000 mg/kg	Rat			

## Irritation and corrosivity

Causes skin irritation.

Causes serious eye irritation.

## Sensitising effects

Contains epoxy constituents. May produce an allergic reaction. May cause an allergic skin reaction. (2,2'-

[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane; Reaction mass of 2,2'-

[methylenebis(2,1-phenyleneoxymethylene)]bis(oxirane) and 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]bis(oxirane)

and 2-({2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy}methyl)oxirane; oxirane, mono[(C12-14-alkyloxy)methyl] derivs.)

May cause heavy allergic reactions with chronic effects after a sensitization and a later exposure by very low amounts.

## Carcinogenic/mutagenic/toxic effects for reproduction

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.

# **SECTION 12: Ecological information**

# 12.1. Toxicity

CAS No	Chemical name						
	Aquatic toxicity	Dose		[h]   [d]	Species	Source	Method
1675-54-3	2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane						
	Acute fish toxicity	LC50	2,0 mg/l		Oncorhynchus mykiss (Rainbow trout)		
	Acute crustacea toxicity	EC50	1,8 mg/l	1	Daphnia magna (Big water flea)		
	Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)]bis(oxirane) and 2,2'- [methylenebis(4,1-phenyleneoxymethylene)]bis(oxirane) and 2-({2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy}methyl)oxirane				e		
	Acute fish toxicity	LC50	2,54 mg/l	96 h			
	Acute algae toxicity	ErC50	1,8 mg/l	72 h			
	Acute crustacea toxicity	EC50	2,55 mg/l	48 h			

# 12.2. Persistence and degradability

No information available.

# 12.3. Bioaccumulative potential

# Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
1675-54-3	2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane	3,242
	Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)]bis(oxirane) and 2,2'- [methylenebis(4,1-phenyleneoxymethylene)]bis(oxirane) and 2-({2-[4- (oxiran-2-ylmethoxy)benzyl]phenoxy}methyl)oxirane	3,6



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#### 12.4. Mobility in soil

No information available.

#### 12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

#### 12.6. Other adverse effects

No further relevant information available.

#### **Further information**

Toxic to aquatic life with long lasting effects. Do not allow to enter into surface water or drains.

# **SECTION 13: Disposal considerations**

# 13.1. Waste treatment methods

#### Disposal recommendations

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process. The waste code has to be identified in agreement with the disposal company or the competent authority.

#### Contaminated packaging

Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

# **SECTION 14: Transport information**

#### Land transport (ADR/RID)

14.1. UN number: UN 3082

14.2. UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (epoxy resin)

14.3. Transport hazard class(es):914.4. Packing group:IIIHazard label:9Classification code:M6

Special Provisions: 274 335 375 601

Limited quantity: 5 L
Excepted quantity: E1
Transport category: 3
Hazard No: 90
Tunnel restriction code: -

Inland waterways transport (ADN)

14.1. UN number: UN 3082

14.2. UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (epoxy resin)

14.3. Transport hazard class(es):914.4. Packing group:IIIHazard label:9Classification code:M6

Special Provisions: 274 335 375 601

Limited quantity: 5 L
Excepted quantity: E1

Marine transport (IMDG)

14.1. UN number: UN 3082

14.2. UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (epoxy resin)

 14.3. Transport hazard class(es):
 9

 14.4. Packing group:
 III

 Hazard label:
 9

 Marine pollutant:
 yes

Special Provisions: 274, 335, 969

Limited quantity: 5 L
Excepted quantity: E1
EmS: F-A, S-F

Air transport (ICAO-TI/IATA-DGR)

<u>14.1. UN number:</u> UN 3082

14.2. UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (epoxy resin)

14.3. Transport hazard class(es):914.4. Packing group:III



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Hazard label: 9

Special Provisions:

Limited quantity Passenger:

Passenger LQ:

Excepted quantity:

A97 A158 A197

30 kg G

Y964

Excepted quantity:

E1

IATA-packing instructions - Passenger: 964
IATA-max. quantity - Passenger: 450 L
IATA-packing instructions - Cargo: 964
IATA-max. quantity - Cargo: 450 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: Yes
Danger releasing substance: epoxy resin

## 14.6. Special precautions for user

No data available

#### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

No data available

## **SECTION 15: Regulatory information**

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

### EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3

2004/42/EC (VOC): < 500 g/l (A+B)

Subcategory according to Directive Two-pack reactive performance coatings for specific end use such as floors -

2004/42/EC: Solvent-borne coatings, VOC limit value: 500 g/l

National regulatory information

Water hazard class (D): 2 - obviously hazardous to water

# **SECTION 16: Other information**

# Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]

Classification	Classification procedure
Skin Irrit. 2; H315	Calculation method
Eye Irrit. 2; H319	Calculation method
Skin Sens. 1; H317	Calculation method
Aquatic Chronic 2; H411	Calculation method

# Relevant H and EUH statements (number and full text)

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.

EUH205 Contains epoxy constituents. May produce an allergic reaction.

### **Further Information**

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material. The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)