

# SAFETY DATA SHEET

According to directive 1907/2006/EC, 2020/878

Version 5.0

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Trade name: EC 54 NF

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

### 1.1 Product identification:

Product name: EC 54 NF  
UFI code: SJ82-D01T-M00M-TK44

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

Usage: Casting resin.  
Recommended restrictions on use: For commercial use only.

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

Responsible distributor : ASSYST bvba / A.S.O.W. bvba  
Hellegatstraat 13a  
2590 Berlaar  
Belgium  
Tel: +32 495 50 61 14 / +32 496 83 70 27  
Website: [www.assyst.org](http://www.assyst.org) / [www.artsuppliesonweb.com](http://www.artsuppliesonweb.com)  
Email: [ao@assyst.org](mailto:ao@assyst.org) / [vera.opsommer@assyst.org](mailto:vera.opsommer@assyst.org)

### 1.4 Emergency telephone number:

For Belgium:

Call the **Poison Control Center (070 245 245 - free)**, if not available: **02 264 96 30** (normal rate) or your doctor. In life-threatening situations, always call the European emergency number **112**.

NHS 24 Direct

For help from a GP, visit your GP surgery's website, use an online service to contact your GP, or call the surgery. **For urgent medical help**, use the NHS 111 online service, or **call 111** if you are unable to get help online. **For life-threatening emergencies, call 999** for an ambulance. There is more information about getting medical help on the NHS website.

## **SECTION 2: Hazard identification**

### 2.1 Classification of the substance or mixture:

**Classification according to Directive (EC) No 1272/2008 and its amendments.**

The product is classified according to the applicable legislation.

**Classification in accordance with Regulation (EC) No 1272/2008 as amended.**

#### **Health hazards**

Skin corrosion/irritation , Category 2 - H315: Causes skin irritation.

Eye irritation , Category 2 - H319: Causes serious eye irritation.

Skin sensitisation , Category 1 - H317: May cause an allergic skin reaction.

Danger of inhalation , Category 1 - H304: May be fatal if swallowed and enters airways.

(Chronic) aquatic toxicity , Category 2 - H411: Toxic to aquatic life with long lasting effects.

For the full text of H phrases mentioned in this section, see section 16.

### 2.2 Label elements:

**Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]:**



**Hazard pictograms:**

**Signal word**

Danger.

**Hazardous ingredients which must be stated on the label**

- bis-[4-(2,3-epoxypropoxy)phenyl] propane
- Bis(isopropyl)naphthalene

**Indications of danger:**

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

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H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H411 Toxic to aquatic life with long lasting effects.

## Precautions

### Prevention:

P261 Avoid breathing dust/smoke/gas/vapour/spray.

P273 Avoid release to the environment.

P280 Wear protective gloves/eye protection/face protection.

### Action:

P301 + P310 IF SWALLOWED: Call a POISON CENTER/physician immediately.

P331 DO NOT induce vomiting.

P391 Clean up spillage/leakage.

### 2.3 Other hazards:

This substance/mixture does not contain any components that can be considered persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### Ecological information:

The substance/mixture does not contain any components suspected of having endocrine disrupting properties according to REACH Article 57(f) or the Delegated Commission Regulation (EU) 2017/2100 or the Commission Regulation (EU) 2018/605 at level 0.1% or higher.

### Toxicological information:

The substance/mixture does not contain any components suspected of having endocrine disrupting properties according to REACH Article 57(f) or the Delegated Commission Regulation (EU) 2017/2100 or the Commission Regulation (EU) 2018/605 at level 0.1% or higher.

## SECTION 3: Composition and information on ingredients

### 3.2 Mixtures:

#### Description:

Chemical description : Modified epoxy resin

Chemical Name	Cas No. EC-No. Index no. Registration number	Layout (Regulation (EC) No 1272/008)	Concentration (%)
bis-[4-(2,3-epoxypropoxy)phenyl] propane	1675-54-3 216-823-5 603-073-00-2 01-2119456619-26	Skin Irrit.2; H315 Eye Irrit.2; H319 Skin Sens.1; H317 Aquatic Chronic2; H411  specific concentration limits Eye Irrit. 2; H319 >= 5 % Skin Irrit. 2; H315 >= 5 %	>= 50 - <= 100
Bis(isopropyl)naphthalene	38640-62-9 254-052-6 - 01-2119565150-48	Asp. Tox.1; H304 Aquatic Chronic1; H410  M-factor (Chronic aquatic toxicity) 1	>= 20 - < 25
benzyl alcohol	100-51-6 202-859-9 603-057-00-5 01-2119492630-38	Acute Tox.4; H302 Acute Tox.4; H332 Eye Irrit.2; H319	>= 1 - < 3

For explanation of abbreviations see section 16.

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

### **4.1 Description of first aid measures:**

#### **General advice:**

Keep warm and in a quiet environment.  
Show this safety data sheet to the physician in charge.  
Remove contaminated clothing immediately.

#### **By inhalation:**

Bringing them out into the fresh air.  
Keep the victim warm and calm.  
If unconscious, apply stable side position and call for medical assistance.  
If symptoms persist, consult a doctor.  
Use artificial respiration if breathing is irregular or stopped.

#### **In contact with skin:**

Wash up immediately with soap and plenty of water.  
DO NOT use solvents or paint thinner.  
In the event of spillage on clothing, remove clothing.  
If skin irritation continues, consult a doctor.

#### **In case of contact with eyes:**

Rinse immediately with plenty of water, including under the eyelids, for at least 15 minutes.  
If eye irritation persists, consult a specialist.  
As far as easy to do, remove any contact lenses.

#### **If swallowed:**

Keep calm.  
Do not induce vomiting without medical advice.  
Keep respiratory tract clear.  
If symptoms persist, consult a doctor.

### **4.2 Most important symptoms and effects, both acute and delayed:**

#### **Appearances:**

Irritating effects  
Redness  
Sensitising effects

### **4.3 Indication of any immediate medical attention and special treatment needed:**

#### **Treatment:**

The procedure for first aid must be drawn up together with the company doctor.

## **SECTION 5: Fire-fighting measures**

### **5.1 Extinguishing media:**

#### **Suitable extinguishing media:**

Foam  
Sand  
Carbon dioxide (CO<sub>2</sub>)  
Water spray

#### **Unsuitable extinguishing media:**

Water spray

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

#### **Specific firefighting hazards:**

Heat can increase the pressure in sealed containers.  
Cool closed containers in the vicinity of the fire with water spray.

### **5.3 Advice for firefighters:**

#### **Special protective equipment for firefighters:**

In case of fire, wear a compressed air mask.  
Use personal protective equipment.

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## **Further information:**

In case of fire and/or explosion do not breathe fumes.

Use extinguishing agents that are suitable for the local conditions and environment.

Immediately evacuate personnel to a safe area.

Prevent fire extinguishing water from contaminating surface water or groundwater systems.

Combustion residues and contaminated extinguishing water must be disposed of in accordance with local regulations.

## **SECTION 6: Accidental release measures for the substance or mixture**

### **6.1 Personal precautions, protective equipment and emergency procedures:**

#### **Personal precautions:**

See protective measures in sections 7 and 8.

Evacuate personnel to a safe area.

Use personal protective equipment.

Ensure adequate ventilation.

Inform the competent authority in case of gas leaks, or in case of run-off into waterways, soil or sewers.

### **6.2 Environmental precautions:**

#### **Environmental precautions:**

Avoid uncontrolled release of product into the environment.

Try to prevent the material from draining into sewers or watercourses.

In case of significant leaks that cannot be contained, the local authority must be informed.

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

#### **Cleaning methods:**

Absorb in inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

Contain and collect spillages with non-combustible absorbent materials, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local/national regulations (see section 13).

Pick up and transfer to properly labelled containers.

### **6.4 Reference to other sections:**

For personal protection, see section 8.

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

### **7.1 Precautions for safe handling**

#### **Advice on safe handling:**

Ensure sufficient ventilation and/or suction at the workplace.

Avoid inhalation, ingestion and contact with skin and eyes.

Wear personal protective clothing.

Persons suffering from skin sensitisation problems, asthma, allergies, chronic or recurrent respiratory diseases should not perform work involving this mixture.

#### **Advice on protection against fire and explosion:**

Keep away from naked flames, hot surfaces and sources of ignition.

#### **Hygiene measures:**

Ensure adequate ventilation.

Wash hands and face before work and immediately after using the product.

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

#### **Requirements for storage rooms and containers:**

Keep containers tightly closed in a dry, cool and well-ventilated place.

Store in properly labelled containers.

#### **Advice for mixed storage:**

Keep away from oxidising agents, strong acids or alkaline materials and amines.

Keep product and empty container away from heat and ignition sources.

Keep away from foodstuffs and beverages.

#### **Other data:**

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Stable at normal room temperature and pressure.

### 7.3 Specific end use:

#### Specific use:

Before using this substance/mixture, refer to the Technical Guidelines.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters:

The product does not contain any components for which exposure values have been established.

#### Derived no-effect doses (DNEL) in accordance with Regulation (EC) No 1907/2006:

Substance name	End use	Route of exposure	Possible health condition	Value
Bis(isopropyl)naphthalene	Consumers	Ingestion	Long-term systemic effects	2.1 mg/kg
	Consumers	Skin contact	Long-term systemic effects	2.1 mg/kg
	Employees	Skin contact	Long-term systemic effects	4.3 mg/kg
	Consumers	Inhalation	Long-term systemic effects	7.4 mg/m <sup>3</sup>
	Employees	Inhalation	Long-term systemic effects	30 mg/m <sup>3</sup>
Benzyl alcohol	Employees	Inhalation	Short-term exposure, systemic effects	450 mg/m <sup>3</sup>
	Employees	Inhalation	Long-term exposure, Systemic effects	90 mg/m <sup>3</sup>
	Employees	Skin contact	Short-term exposure, systemic effects	47 mg/kg
	Employees	Skin contact	Long-term exposure, Systemic effects	9.5 mg/kg
	Consumers	Ingestion	Short-term exposure, systemic effects	25 mg/kg
	Consumers	Ingestion	Long-term exposure, Systemic effects	5 mg/kg
	Consumers	Inhalation	Short-term exposure, systemic effects	40.55 mg/m <sup>3</sup>
	Consumers	Inhalation	Long-term exposure, Systemic effects	8.11 mg/m <sup>3</sup>
	Consumers	Skin contact	Short-term exposure, systemic effects	28.5 mg/kg
	Consumers	Skin contact	Long-term exposure, Systemic effects	5.7 mg/kg
bis-[4-(2,3-epoxypropoxy)phenyl] propane	Employees	Skin contact	Acute - systemic effects, Long-term - systemic effects	8.33 mg/kg
	Employees	Inhalation	Acute - systemic effects, Long-term - systemic effects	12.25 mg/m <sup>3</sup>
	Consumers	Skin contact	Acute - systemic effects, Long-term - systemic effects	3,571 mg/kg
	Consumers	Ingestion	Acute - systemic effects, Long-term - systemic effects	0.75 mg/kg

#### Predicted no-effect concentration (PNEC) in accordance with Regulation (EC) No 1907/2006:

Substance name	Environmental compartment	Value
Bis(isopropyl)naphthalene	Sewage treatment plant	0.15 mg/l
	Freshwater	0.00026 mg/l
	Seawater	0,000026 mg/l
	Freshwater deposition	0.94 mg/kg
	Sea sediment	0.094 mg/kg
	Bottom	0.19 mg/kg
benzyl alcohol	Freshwater	1 mg/l
	Seawater	0,1 mg/l
	Freshwater deposition	5.27 mg/kg
	Sea sediment	0.527 mg/kg
	Bottom	0.456 mg/kg
	Sewage treatment plant	39 mg/l
bis-[4-(2,3-epoxypropoxy)phenyl] propane	Sporadic release	2.3 mg/l
	Freshwater	0.006 mg/l
	Seawater	0.0006 mg/l
	Sporadic release	0.018 mg/l
	Sewage treatment plant	10 mg/l
	Freshwater deposition	0.996 mg/kg
	Sea sediment	0.0996 mg/kg
	Bottom	0.196 mg/kg

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## 8.2 Exposure controls:

### **Technical means of control:**

Effective exhaust ventilation system.

Effective ventilation at all workplaces.

### **Personal protective equipment:**

#### **Eye protection:**

Do not wear contact lenses.

Safety glasses with side-shields according to EN 166

Provide eye-rinsing facilities and safety showers close to the workplace.

#### **Hand protection**

##### **Material:**

Chemical-resistant gloves made of butyl rubber or nitrile rubber, category III according to EN 374.

##### **Skin and body protection:**

Protective clothing

##### **Respiratory protection:**

Unless sufficient local exhaust ventilation is provided, or exposure assessment shows that the exposures are within the recommended exposure guidelines, respiratory protection should be used.

In case of vapour formation, use a respirator with an approved filter type.

The equipment must comply with EN 14387.

Apply technical measures to comply with the occupational exposure limits.

This can be achieved by good general exhaust ventilation or, where practical, local exhaust ventilation.

##### **Protective measures:**

Avoid contact with the skin.

Wear appropriate personal protective equipment.

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

### **9.1 Information on basic physical and chemical properties:**

Appearance:	liquid
Colour:	light yellow
Odour:	light
Odour threshold:	Not implemented
Melting/freezing point:	Not applicable
Boiling point/boiling range:	> 200 °C
Upper explosion limit:	Not applicable
Lower explosion limit:	Not applicable
Flashpoint:	150 °C
Ignition temperature:	Not applicable
Auto-ignition temperature:	Not applicable
Decomposition temperature:	Method: no data available
pH:	4 - 6
	Concentration: 1 %.
Viscosity	
Viscosity, dynamic:	1,400-1,800 mPa.s (25 °C)
Viscosity, kinematic:	Not done
Solubility:	
Solubility in water:	Not performed
Solubility in other solvents:	Not performed
Partition coefficient n-octanol/water:	No data available
Vapour pressure:	Not carried out
Density:	1.15 g/cm <sup>3</sup> (25 °C)
Bulk density:	Not implemented
Relative vapour density:	Not done

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## Particle characteristics

Particle size Not applicable

## 9.2 Other information

Explosive substances: Not applicable

Oxidising properties: Not applicable

Self-ignition: Not applicable

Evaporation rate: Not carried out

Surface tension: Not done

Sublimation point: Not applicable

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

### 10.1 Reactivity:

Stable under recommended storage conditions.

### 10.2 Chemical Stability:

No decomposition if stored and applied as directed.

### 10.3 Potentially hazardous reactions:

#### **Hazardous reactions:**

Reacts with the following substances:

Bases

Strong oxidising agents

Avoid amines.

### 10.4 Conditions to avoid

No decomposition if instructions are followed.

### 10.5 Chemically Interacting Materials:

#### **Materials to avoid:**

Incompatible with oxidising agents.

### 10.6 Hazardous decomposition products:

#### **The following substances may be released from this product:**

Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

## **SECTION 11: Toxicological information**

### 11.1 Information on toxicological effects:

#### **Acute Toxicity**

Product:

#### Acute oral toxicity:

Acute toxicity estimates : > 2,000 mg/kg

Method: Calculation method

#### Acute toxicity by inhalation:

Acute toxicity estimates: > 5 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Method: Calculation method

Remarks: No data available

#### Acute dermal toxicity:

Remarks: No data available

#### Acute toxicity (alternative route of administration):

Remarks: No data available

#### **Constituents:**

#### bis-[4-(2,3-epoxypropoxy)phenyl]propane:

Acute oral toxicity:

LD50 (Rat, female): > 2,000 mg/kg

Method: Guideline test OECD 420

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GLP: yes

Acute dermal toxicity:

LD50 (Rat, male and female): > 2,000 mg/kg

Method: Guideline test OECD 402

GLP: yes

Bis(isopropyl)naphthalene:

Acute toxicity by inhalation:

LC50 (Rat, male and female): > 5,64 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Method: Guideline test OECD 403

GLP: yes

Acute dermal toxicity:

LD50 (Rat, male and female): > 4,000 mg/kg

Method: Guideline test OECD 402

GLP: yes

benzyl alcohol:

Acute toxicity by inhalation:

LC50 (Rat, male and female) 4 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Method: Guideline test OECD 403

GLP: yes

## **Skin corrosion/irritation**

Product:

Remarks: No data available

Constituents:

bis-[4-(2,3-epoxypropoxy)phenyl]propane:

Species: Rabbit

Exposure time: 4 h

Method: Guideline test OECD 404

Result: Skin irritation

GLP: yes

Bis(isopropyl)naphthalene:

Species: Rabbit

Method: Guideline test OECD 404

Result: No skin irritation

GLP: yes

benzyl alcohol:

Species: Rabbit

Method: Guideline test OECD 404

Result: No skin irritation

GLP: yes

## **Serious eye damage/eye irritation**

Product:

Remarks: No data available

Constituents:

Bis(isopropyl)naphthalene:

Species: Rabbit

Method: Guideline test OECD 405

Result: No eye irritation

GLP: yes

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## benzyl alcohol:

Species: Rabbit

Method: Guideline test OECD 405

Result: Eye irritation

GLP: yes

## **Respiratory tract/skin sensitisation**

Product:

Remarks: No data available

Constituents:

## bis-[4-(2,3-epoxypropoxy)phenyl]propane:

Test type: Mouse Local Lymph Node assay (LLNA)

Type: Mouse

Method: Guideline test OECD 429

Result: May cause sensitisation by skin contact.

GLP: yes

## Bis(isopropyl)naphthalene:

Test type: Maximisation test

Route of exposure: Skin

Species: Guinea pig

Method: Guideline test OECD 406

Result: Does not cause hypersensitivity of the skin.

GLP: yes

## **Carcinogenicity**

Product:

Remarks: No data available

## **Toxicity for reproduction**

Product:

Effects on fertility:

Remarks: No data available

Effects on foetal development:

Remarks: No data available

## **STOT on single exposure**

Product:

Remarks: Not applicable

## **STOT on repeated exposure**

Product:

Remarks: Not applicable

## **Repeated dose toxicity**

Product:

Remarks: No data available

## **Aspiration toxicity**

Constituents:

## bis-[4-(2,3-epoxypropoxy)phenyl]propane:

No classification for toxicity by aspiration.

## 11.2 Information on other hazards

### **Endocrine disrupting properties**

Product:

Assessment:

The substance/mixture does not contain any components suspected of having endocrine disrupting properties according to REACH Article 57(f) or the Delegated Commission Regulation (EU) 2017/2100 or the Commission Regulation (EU) 2018/605 at level 0.1% or higher.

### **Further information**

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Product:  
Notes:  
No data available

## **SECTION 12: Ecological information**

### **12.1 Toxicity:**

Product:

#### **Fish toxicity:**

Remarks: No data available

#### **Toxicity to daphnia and other aquatic invertebrates:**

Remarks: No data available

Constituents:

bis-[4-(2,3-epoxypropoxy)phenyl]propane:

#### **Toxicity to daphnia and other aquatic invertebrates:**

EC50 (Daphnia (Water fly)) 1.7 mg/l

Exposure time: 48 h

Test type: static test

Method: OECD Test Guideline 202

GLP: yes

#### **Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity):**

NOEC: 0,3 mg/l

Exposure time: 21 d

Species: Daphnia magna (large water flea)

Test type: semi-static test

Method: OECD Test Guideline 211

GLP: yes

Bis(isopropyl)naphthalene:

#### **Fish toxicity:**

LC50 (Leuciscus idus (Goldenrod)): > 0,5 mg/l

Exposure time: 96 h

Test type: semi-static test

Method: Directive 67/548/EEC, Annex V, C.1.

GLP: yes

#### **Toxicity to daphnia and other aquatic invertebrates:**

EC50 (Daphnia magna (large water flea)) 1,7 mg/l

Exposure time: 48 h

Test type: semi-static test

Method: OECD Test Guideline 202

GLP: yes

#### **Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity):**

NOEC: 0,013 mg/l

Exposure time: 21 d

Species: Daphnia magna (large water flea)

Test type: semi-static test

M-factor ((Chronic) Aquatic long-term hazard)n:

1

benzyl alcohol:

#### **Toxicity to daphnia and other aquatic invertebrates:**

EC50 (Daphnia magna (large water flea)): 230 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

GLP: yes

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## **Toxicity to algae:**

ErC50 (Pseudokirchneriella subcapitata (green algae)): 770 mg/l

Exposure time: 72 h

Test type: static test

Method: OECD Test Guideline 201

GLP: yes

## 12.2 Persistence and Degradability:

Product:

### **Biodegradability:**

Remarks: No data available

### **Physico-chemical removability:**

Remarks: No data available

Constituents:

#### bis-[4-(2,3-epoxypropoxy)phenyl]propane:

Biodegradability:

Result: Not readily biodegradable.

Method: Guideline test OECD 301F

GLP: yes

#### Bis(isopropyl)naphthalene:

Biodegradability:

Test type: aerobic

Result: Not readily biodegradable.

Method: Guideline test OECD 310

GLP: yes

## 12.3 Bioaccumulation:

Product:

Bioaccumulation:

Remarks: No data available

Constituents:

#### bis-[4-(2,3-epoxypropoxy)phenyl]propane:

Partition coefficient: n-octanol/water:

Log Pow: 3,242 (25 °C)

pH: 7.1

Method: OECD Test Guideline 117

GLP: yes

#### Bis(isopropyl)naphthalene:

Bioaccumulation:

Species: Cyprinus carpio (Carp)

Bioconcentration factor (BCF): > 500

Method: Guideline test OECD 305

GLP: yes

## 12.4 Mobility in Soil:

No data available

## 12.5 Results of PBT and vPvB assessment

Product:

Assessment:

This substance/mixture does not contain any components that can be considered persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## 12.6 Endocrine disrupting properties

Product:

Assessment:

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The substance/mixture does not contain any components suspected of having endocrine disrupting properties according to REACH Article 57(f) or the Delegated Commission Regulation (EU) 2017/2100 or the Commission Regulation (EU) 2018/605 at level 0.1% or higher.

## 12.7 Other Harmful Effects:

Product:

Additional ecological information:

Remarks: There is a risk of damage to the environment if this substance is handled or disposed of incorrectly.

## **SECTION 13: Instructions for disposal**

### 13.1 Waste treatment methods:

**Product:**

According to local and national regulations.

Container dangerous when empty.

Do not dispose of together with household waste.

Do not mix streams during waste collection.

**Contaminated packaging:**

Empty containers should be taken to an authorised waste disposal centre for reuse or disposal.

## **SECTION 14: Information relating to carriage**

### 14.1 UN number

ADR/RID/ADN: UN 3082

IMDG: UN 3082

IATA: UN 3082

### 14.2 Proper load name according to UN Model Regulations

ADR/RID/ADN: LIQUID DANGEROUS FOR THE ENVIRONMENT, N.O.S.  
(2,2-bis[4(2,3-epoxypropoxy)phenyl] propane)

IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(bis-[4-(2,3-epoxipropoxi)phenyl]propane)

IATA: Environmentally hazardous substance, liquid, n.o.s.  
(bis-[4-(2,3-epoxipropoxi)phenyl]propane)

### 14.3 Transport hazard class(es)

ADR/RID/ADN: 9

IMDG: 9

IATA: 9

### 14.4 Packing group

**ADR/RID/ADN**

Packing group: III

Classification code: M6

Hazard Identification No: 90

Labels: 9

Comments: ADR: These substances when carried in single or combination packagings containing a net quantity per single or inner packaging of 5 l or less for liquids or having a net mass per single or inner packaging of 5 kg or less for solids, are not subject to any other provisions of ADR provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.

**IMDG**

Packing group: III

Labels: 9

EmS Code: F-A, S-F

Comments: IMDG: Marine pollutants packaged in single or combination packagings containing a net quantity per single or inner packaging of 5 l or less for

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Trade name: EC 54 NF

liquids or having a net mass per single or inner packaging of 5 kg or less for solids are not subject to any other provisions of this Code relevant to marine pollutants provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8. In the case of marine pollutants also meeting the criteria for inclusion in another hazard class all provisions of this Code relevant to any additional hazards continue to apply.

## **IATA (Cargo Aircraft)**

Packing instruction: 964

Packing group: III

Labels: 9

Comments: IATA: These substances when transported in single or combination packagings containing a net quantity per single or inner packaging of 5 L or less for liquids or having a net mass of 5 kg or less for solids, are not subject to any other provisions of these Regulations provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.

## **IATA (Passenger - passenger aircraft)**

Packing instruction: 964

Packing instruction (LQ): Y964

Packing group: III

Labels: Miscellaneous

## 14.5 Environmental hazards

### **ADR/RID/ADN**

Environmentally hazardous: yes

### **IMDG**

Marine pollution: yes

### **IATA (cargo)**

Environmentally hazardous: yes

## 14.6 Special precautions for the user

Notes:

The transport of dangerous goods, including loading and unloading, must be carried out in accordance with regulations by personnel who have received the necessary training.

The transport classification(s) given herein are only for information and based on the properties of the unpackaged material as described in this safety data sheet. Transport classifications may vary with regard to mode of transport, size of packaging and variations in regional or national regulations.

## 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as delivered.

## **SECTION 15: Legally required information**

### 15.1 Safety, health and environmental regulations and legislation specific to the substance or mixture

#### **REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII):**

Restriction conditions for the following dates should be considered:

Number on the list: 3

#### **REACH - Candidate list of substances of very high concern for authorisation (Article 59):**

Not applicable

#### **Regulation (EC) No 1005/2009 on substances that deplete the ozone layer:**

Not applicable

#### **Regulation (EE) 2019/1021 on persistent organic pollutants (recast):**

Not applicable

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**Regulation (EC) No 649/2012 of the European Parliament and of the Council concerning the export and import of dangerous chemicals:**

Not applicable

**REACH - List of substances subject to authorisation (Annex XIV):**

Not applicable

**REGULATION (EU) 2019/1148 on the marketing and use of explosives precursors:**

Not applicable

**Toxic chemical substances and precursor (intermediate) compounds of the International Chemical Weapons Convention (CWC):**

Not applicable

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

Not applicable

**Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances:**

E2

**ENVIRONMENTAL EFFECTS**

**Other regulations:**

Regarding the composition of the product, we deliberately do not add any of the substances listed in European Directive 2011/65/EU (RoHS 2, RoHS 3 and China RoHS).

The product therefore complies with the aforementioned directives.

Also, no conflict minerals are intentionally added to the product.

**15.2 Chemical Safety Assessment:**

Not applicable.

**SECTION 16: Other information**

Items in which relevant changes have been made with respect to the previous version are marked in the main body of this document by a thick vertical line.

**Full text of the H statements**

H302:	Harmful if swallowed.
H304:	May be fatal if swallowed and enters airways.
H315:	Causes skin irritation.
H317:	May cause allergic skin reaction.
H319:	Causes serious eye irritation.
H332:	Harmful by inhalation.
H410:	Very toxic to aquatic life with long lasting effects.
H411:	Toxic to aquatic life with long lasting effects.

**Full text of other abbreviations**

Acute Tox.:	Acute Toxicity
Aquatic Chronic:	Chronic aquatic toxicity
Asp. Tox.:	Aspiration hazard
Eye Irrit.:	Eye irritation
Skin Irrit.:	Skin corrosion/irritation
Skin Sens.:	Skin Sensitisation

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways;  
ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR Agreement);  
AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials;  
bw - Body Weight; CLP - Classification, Labelling and Packaging Regulation; Regulation (EC) No 1272/2008;  
CMR - Carcinogenic, mutagenic or toxic to reproduction; DIN - Standard of the German Institute for

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Standardisation; DSL - List of Indoor Substances (Canada); ECHA - European Chemicals Agency; EC-Number - EINECS number; ECx - Concentration associated with x% response; ELx - Charge capacity associated with x% response; EmS - Emergency schedule; ENCS - Existing and New Chemicals (Japan); ErCx - Concentration associated with x% growth response; GHS - Globally Harmonised System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - Association for International Air Transport; IBC - IMO International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk; IC50 - Half-Maximum Inhibitory Concentration; ICAO - International Civil Aviation Organisation; IECS - Inventory List of Existing Chemicals in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organization for Standardization; KECI - Korean Inventory of Existing Chemicals; LC50 - Lethal concentration for 50% of a test population; LD50 - Lethal dose for 50% of a test population (lethal dose median); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not otherwise specified; NO(A)EC - No observable (negative) effect on concentration; NO(A)EL - No observable (negative) effect on Level; NOELR - No observable effect on cargo capacity; NZIoC - New Zealand Inventory of Chemicals; OECD - Organisation for Economic Co-operation and Development OECD; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Difficult to degrade, bioaccumulative and toxic substance; PICCS - Philippine Inventory of Chemicals and Chemicals; (Q)SAR - (Quantitative) Structure-Activity Relationships; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH); RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwanese Inventory of Chemical Substances; TECI - Inventory of Chemical Substances existing in Thailand; TRGS - Technical Regulation on Dangerous Substances; TSCA - Toxic Substances Control Act (US); UN - United Nations; vPvB - Very Hard to Degrade and Very Bioaccumulative

## Further information

Training advice:

Provide good information, instruction and training for users.

## Classification of the preparation:

Skin Irrit. 2	H315
Eye Irrit. 2	H319
Skin Sens. 1	H317
Asp. Tox. 1	H304
Aquatic Chronic 2	H411

## Classification procedure:

Calculation method

The information in this safety data sheet is correct to the best of our knowledge at the date of issue indicated. This information is intended only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a guarantee or indication of quality.