

SG 715 NOIR - 943



**SAFETY DATA SHEET**  
(REACH regulation (EC) n° 1907/2006 - n° 2015/830)

**SECTION 1 : IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

**1.1. Product identifier**

Product name : SG 715 NOIR  
Product code : 943.  
EPOXY RESIN

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

Recommended use : resin  
Uses advised against : data not available

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

Registered company name : SICOMIN Composites.  
Address : 31 avenue de la Lardiere - BP 23.13161.Chateauneuf les Martigues.France.  
Telephone : +33 (0)4 42 42 30 20. Fax : +33 (0)4 42 81 29 29.  
e-mail: composites@sicomin.com  
Site web : <http://www.sicomin.com>

**1.4. Emergency telephone number :**

Association/Organisation : INRS / ORFILA tél: +33(0)1.45.42.59.59 - (FRANCE) .

**Other emergency numbers**

Health and Safety Executive (HSE) Chemicals Regulation Directorate - Telephone: +44 151 951 3317 - USA : +1/ 800/ 424.9300

**SECTION 2 : HAZARDS IDENTIFICATION**

**2.1. Classification of the substance or mixture**

**In compliance with EC regulation No. 1272/2008 and its amendments.**

Skin corrosion, Category 1C (Skin Corr. 1C, H314).  
Serious eye damage, Category 1 (Eye Dam. 1, H318).  
Skin sensitisation, Category 1 (Skin Sens. 1, H317).  
Reproductive toxicity, Category 1B (Repr. 1B, H360).  
Specific target organ toxicity (repeated exposure), Category 2 (STOT RE 2, H373).  
Hazardous to the aquatic environment - Chronic hazard, Category 2 (Aquatic Chronic 2, H411).  
This mixture does not present a physical hazard. Refer to the recommendations regarding the other products present on the site.

**2.2. Label elements**

**In compliance with EC regulation No. 1272/2008 and its amendments.**

Hazard pictograms :



GHS05



GHS09



GHS07



GHS08

Signal Word :

DANGER

Product identifiers :

EC 500-033-5

REACTION PRODUCT: BISPHENOL-A- EPICHLORHYDRIN EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT <=700)

EC 500-006-8

REACTION PRODUCT: BISPHENOL- F ON- EPICHLORHYDRIN. EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT < 700)

**SG 715 NOIR - 943**

EC 238-878-4 QUARTZ  
EC 608-489-8 TRIMETHYLOLPROPANE TRIGLYCIDYLETHER  
EC 249-237-3 METHYL TOLUENE-4-SULPHONATE

Additional labeling :

EUH205 Contains epoxy constituents. May produce an allergic reaction.  
For professional use only.

Hazard statements :

H314 Causes severe skin burns and eye damage.  
H317 May cause an allergic skin reaction.  
H360F May damage fertility.  
H373 May cause damage to organs through prolonged or repeated exposure .  
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements - Prevention :

P202 Do not handle until all safety precautions have been read and understood.  
P264 Wash hands thoroughly after handling.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary statements - Response :

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].  
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**

The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC)  $\geq 0.1\%$  published by the European Chemicals Agency (ECHA) under article 57 of REACH: <http://echa.europa.eu/fr/candidate-list-table>

The mixture fulfils neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.

**SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS**

**3.2. Mixtures**

**Composition :**

Identification	(EC) 1272/2008	Note	%
CAS: 25068-38-6 EC: 500-033-5 REACH: 01-2119456619-26-XXXX  REACTION PRODUCT: BISPHENOL-A-EPICHLORHYDRIN EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT $\leq 700$ )	GHS07, GHS09 Wng Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319 Aquatic Chronic 2, H411		25 $\leq$ x % < 50
CAS: 9003-36-5 EC: 500-006-8 REACH: 01-2119454392-40-XXXX  REACTION PRODUCT: BISPHENOL- F ON-EPICHLORHYDRIN. EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT < 700)	GHS07, GHS09 Wng Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 2, H411		10 $\leq$ x % < 25
CAS: 14808-60-7 EC: 238-878-4 REACH: N.A ( Annexe V.7)  QUARTZ	GHS08 Wng STOT RE 2, H373	[1]	10 $\leq$ x % < 25

SG 715 NOIR - 943

CAS: 30499-70-8 EC: 608-489-8  TRIMETHYLOLPROPANE TRIGLYCIDYLETHER	GHS05, GHS09, GHS07, GHS08 Dgr Skin Corr. 1C, H314 Skin Sens. 1, H317 Eye Dam. 1, H318 Repr. 1B, H360F Aquatic Chronic 2, H411	[2]	2.5 <= x % < 10
CAS: 28804-47-9 EC: 249-237-3 REACH: 02-2114675466-36-XXXX  METHYL TOLUENE-4-SULPHONATE	GHS06 Dgr Acute Tox. 4, H302 Acute Tox. 3, H311 Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319		1 <= x % < 2.5

(Full text of H-phrases: see section 16)

**Information on ingredients :**

- [1] Substance for which maximum workplace exposure limits are available.  
[2] Carcinogenic, mutagenic or reprotoxic (CMR) substance.

**SECTION 4 : FIRST AID MEASURES**

As a general rule, in case of doubt or if symptoms persist, always call a doctor.  
NEVER induce swallowing by an unconscious person.

**4.1. Description of first aid measures**

**In the event of exposure by inhalation :**

Never give anything by mouth. If unconscious, place in recovery position and call an ambulance.  
If inhaled, move the patient to fresh air and keep warm and rest.

**In the event of splashes or contact with eyes :**

Wash thoroughly with fresh, clean water for 15 minutes holding the eyelids open.  
Regardless of the initial state, refer the patient to an ophthalmologist and show him the label.  
Flush with large amounts of water. Remove contact lenses if the victim is. Continue to rinse. Seek medical attention if symptoms persist.

**In the event of splashes or contact with skin :**

Remove contaminated clothing and wash the skin thoroughly with soap and water or a recognised cleaner.  
Remove any soiled or splashed clothing immediately.  
Watch out for any remaining product between skin and clothing, watches, shoes, etc.  
In the event of an allergic reaction, seek medical attention.  
If the contaminated area is widespread and/or there is damage to the skin, a doctor must be consulted or the patient transferred to hospital.

**In the event of swallowing :**

Do not give the patient anything orally.  
In the event of swallowing, if the quantity is small (no more than one mouthful), rinse the mouth with water and consult a doctor.  
Seek medical attention immediately, showing the label.

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

No data available.

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

**Information for the doctor :**

In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to remain under medical supervision for 48 hours.  
Contact a specialist for treatment poisoning if large quantities have been ingested or inhaled.

**SG 715 NOIR - 943**

---

**SECTION 5 : FIREFIGHTING MEASURES**

Non-flammable.

**5.1. Extinguishing media**

**Suitable methods of extinction**

In the event of a fire, use :

- sprayed water or water mist
- foam
- powder

**Unsuitable methods of extinction**

In the event of a fire, do not use :

- water jet

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

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health.

Do not breathe in smoke.

In the event of a fire, the following may be formed :

- carbon monoxide (CO)
- carbon dioxide (CO<sub>2</sub>)

**5.3. Advice for firefighters**

Firefighters should wear suitable protective clothing and a respirator mask with self- full operated in positive pressure mode.

---

**SECTION 6 : ACCIDENTAL RELEASE MEASURES**

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

Consult the safety measures listed under headings 7 and 8.

**For non first aid worker**

Avoid any contact with the skin and eyes.

**For first aid worker**

First aid workers will be equipped with suitable personal protective equipment (See section 8).

**6.2. Environmental precautions**

Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal.

Prevent any material from entering drains or waterways.

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

Clean preferably with a detergent, do not use solvents.

**6.4. Reference to other sections**

No data available.

---

**SECTION 7 : HANDLING AND STORAGE**

Requirements relating to storage premises apply to all facilities where the mixture is handled.

Individuals with a history of skin sensitisation should not, under any circumstance, handle this mixture.

Avoid exposure to pregnant women and warn women of child-bearing age of the possible risks

**7.1. Precautions for safe handling**

Always wash hands after handling.

Remove and wash contaminated clothing before re-using.

Emergency showers and eye wash stations will be required in facilities where the mixture is handled constantly.

**Fire prevention :**

Prevent access by unauthorised personnel.

**Recommended equipment and procedures :**

For personal protection, see section 8.

Observe precautions stated on label and also industrial safety regulations.

SG 715 NOIR - 943

Avoid exposure - obtain special instructions before use.

**Prohibited equipment and procedures :**

No smoking, eating or drinking in areas where the mixture is used.

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

No data available.

**Storage**

Store in original container protected from direct sunlight in a dry, cool and well ventilated area away from heat sources.

Keep container tightly closed in a dry place.

Store away from heat and cold.

**Packaging**

Always keep in packaging made of an identical material to the original.

**7.3. Specific end use(s)**

No data available.

**SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1. Control parameters**

**Occupational exposure limits :**

- ACGIH TLV (American Conference of Governmental Industrial Hygienists, Threshold Limit Values, 2010) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
14808-60-7	0.05 mg/m3	-	-	-	R

- France (INRS - ED984 :2016) :

CAS	VME-ppm :	VME-mg/m3 :	VLE-ppm :	VLE-mg/m3 :	Notes :	TMP No :
14808-60-7	-	0.1 A	-	-	-	25

- UK / WEL (Workplace exposure limits, EH40/2005, 2011) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
14808-60-7	0.3 mg/m3	-	-	-	R

**Derived no effect level (DNEL) or derived minimum effect level (DMEL):**

REACTION PRODUCT: BISPHENOL- F ON- EPICHLORHYDRIN. EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT < 700) (CAS: 9003-36-5)

**Final use:**

Exposure method:  
Potential health effects:  
DNEL :

**Workers.**

Dermal contact.  
Short term local effects.  
8.3 µg of substance/cm2

Exposure method:  
Potential health effects:  
DNEL :

Dermal contact.  
Long term systemic effects.  
104.15 mg/kg body weight/day

Exposure method:  
Potential health effects:  
DNEL :

Inhalation.  
Long term systemic effects.  
29.39 mg of substance/m3

**Final use:**

Exposure method:  
Potential health effects:  
DNEL :

**Man exposed via the environment.**

Ingestion.  
Long term systemic effects.  
6.25 mg/kg body weight/day

Exposure method:  
Potential health effects:  
DNEL :

Dermal contact.  
Long term systemic effects.  
62.5 mg/kg body weight/day

Exposure method:

Inhalation.

**SG 715 NOIR - 943**

Potential health effects: Long term systemic effects.  
DNEL : 8.7 mg of substance/m3

REACTION PRODUCT: BISPHENOL-A- EPICHLORHYDRIN EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT <=700) (CAS: 25068-38-6)

**Final use:**

Exposure method: Dermal contact.  
Potential health effects: Short term systemic effects.  
DNEL : 8.3 mg/kg body weight/day

Exposure method: Dermal contact.  
Potential health effects: Long term systemic effects.  
DNEL : 8.3 mg/kg body weight/day

Exposure method: Inhalation.  
Potential health effects: Short term systemic effects.  
DNEL : 12.3 mg of substance/m3

Exposure method: Inhalation.  
Potential health effects: Long term systemic effects.  
DNEL : 12.3 mg of substance/m3

**Final use:**

**Man exposed via the environment.**

Exposure method: Ingestion.  
Potential health effects: Short term systemic effects.  
DNEL : 0.75 mg/kg body weight/day

Exposure method: Ingestion.  
Potential health effects: Long term systemic effects.  
DNEL : 0.75 mg/kg body weight/day

Exposure method: Dermal contact.  
Potential health effects: Short term systemic effects.  
DNEL : 3.6 mg/kg body weight/day

Exposure method: Dermal contact.  
Potential health effects: Long term systemic effects.  
DNEL : 3.6 mg/kg body weight/day

Exposure method: Inhalation.  
Potential health effects: Short term systemic effects.  
DNEL : 0.75 mg of substance/m3

Exposure method: Inhalation.  
Potential health effects: Long term systemic effects.  
DNEL : 0.75 mg of substance/m3

**Predicted no effect concentration (PNEC):**

REACTION PRODUCT: BISPHENOL- F ON- EPICHLORHYDRIN. EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT < 700) (CAS: 9003-36-5)

Environmental compartment: Soil.  
PNEC : 0.237 mg/kg

Environmental compartment: Fresh water.

**SG 715 NOIR - 943**

PNEC :	0.003 mg/l
Environmental compartment: PNEC :	Sea water. 0.0003 mg/l
Environmental compartment: PNEC :	Intermittent waste water. 0.0254 mg/l
Environmental compartment: PNEC :	Fresh water sediment. 0.294 mg/kg
Environmental compartment: PNEC :	Marine sediment. 0.0294 mg/kg
Environmental compartment: PNEC :	Waste water treatment plant. 10 mg/l

REACTION PRODUCT: BISPHENOL-A- EPICHLORHYDRIN EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT <=700) (CAS: 25068-38-6)

Environmental compartment: PNEC :	Soil. 0.05 mg/kg
Environmental compartment: PNEC :	Fresh water. 3 µg/l
Environmental compartment: PNEC :	Sea water. 0.3 µg/l
Environmental compartment: PNEC :	Intermittent waste water. 0.013 mg/l
Environmental compartment: PNEC :	Fresh water sediment. 0.5 mg/kg
Environmental compartment: PNEC :	Marine sediment. 0.5 mg/kg
Environmental compartment: PNEC :	Waste water treatment plant. 10 mg/l

## 8.2. Exposure controls

Use only with adequate ventilation or provided with ventilation at the source.

### Personal protection measures, such as personal protective equipment

Pictogram(s) indicating the obligation of wearing personal protective equipment (PPE) :



Use personal protective equipment that is clean and has been properly maintained.

Store personal protective equipment in a clean place, away from the work area.

Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

### - Eye / face protection

Avoid contact with eyes.

Use eye protectors designed to protect against liquid splashes

**SG 715 NOIR - 943**

---

Before handling, wear safety goggles with protective sides accordance with standard EN166.

In the event of high danger, protect the face with a face shield.

Prescription glasses are not considered as protection.

Individuals wearing contact lenses should wear prescription glasses during work where they may be exposed to irritant vapours.

Provide eyewash stations in facilities where the product is handled constantly.

**- Hand protection**

Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN374.

Gloves must be selected according to the application and duration of use at the workstation.

Protective gloves need to be selected according to their suitability for the workstation in question : other chemical products that may be handled, necessary physical protections (cutting, pricking, heat protection), level of dexterity required.

Type of gloves recommended :

- Nitrile rubber (butadiene-acrylonitrile copolymer rubber (NBR))
- Butyl Rubber (Isobutylene-isoprene copolymer)

Recommended properties :

- Impervious gloves in accordance with standard EN374

**- Body protection**

Avoid skin contact.

Wear suitable protective clothing.

In the event of substantial spatter, wear liquid-tight protective clothing against chemical risks (type 3) in accordance with EN14605 to prevent skin contact.

In the event of a risk of splashing, wear protective clothing against chemical risks (type 6) in accordance with EN13034 to prevent skin contact.

Wear suitable protective clothing and, in particular, an apron and boots. These items of clothing shall be maintained in good condition and cleaned after use.

Work clothing worn by personnel shall be laundered regularly.

After contact with the product, all parts of the body that have been soiled must be washed.

**- Respiratory protection**

Anti-gas and vapour filter(s) (Combined filters) in accordance with standard EN14387 :

- A1 (Brown)
- A2 (Brown)
- A3 (Brown)

---

**SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES**

**9.1. Information on basic physical and chemical properties**

**General information :**

Physical state :	Viscous liquid.
Aspect :	Gel coat
Color:	black

**Important health, safety and environmental information**

pH :	Not relevant.
Boiling point/boiling range :	Not relevant.
Flash Point Interval :	FP > 100°C.
Vapour pressure (50°C) :	Not relevant.
Density :	1.16 ± 0.01 @ 20°C
Water solubility :	Insoluble.
Viscosity :	27 400 ± 5 500 mPa.s @ 25 °C
Melting point/melting range :	Not relevant.
Self-ignition temperature :	Not relevant.
Decomposition point/decomposition range :	Not relevant.



**SG 715 NOIR - 943**

---

**9.2. Other information**

Miscibility Alcohols, aromatic hydrocarbons

---

**SECTION 10 : STABILITY AND REACTIVITY**

**10.1. Reactivity**

No data available.

**10.2. Chemical stability**

This mixture is stable under the recommended handling and storage conditions in section 7.

**10.3. Possibility of hazardous reactions**

No data available.

**10.4. Conditions to avoid**

No data available.

**10.5. Incompatible materials**

No data available.

**10.6. Hazardous decomposition products**

The thermal decomposition may release/form :

- carbon monoxide (CO)
  - carbon dioxide (CO<sub>2</sub>)
- 

**SECTION 11 : TOXICOLOGICAL INFORMATION**

**11.1. Information on toxicological effects**

May cause irreversible damage to the skin; namely, visible necrosis through the epidermis and into the dermis, following exposure between one and four hours.

Corrosive reactions are typified by ulcers, bleeding, bloody scabs, and, by the end of observation at 14 days, by discolouration due to blanching of the skin, complete areas of alopecia, and scars.

May cause an allergic reaction by skin contact.

Based on the properties of the epoxy constituent(s) and considering toxicological data on similar preparations, this preparation may be a skin sensitiser and a respiratory tract sensitiser as well as an irritant.

Constituents with a low molecular weight irritate the eyes, mucous membranes and the skin

Repeated contact with the skin may cause irritation and hypersensitisation, possibly in combination with other epoxide compounds.

Presumed human reproductive toxicant.

May damage fertility.

May cause severe damage to organs in the event of repeated or prolonged exposure.

**11.1.1. Substances**

**Acute toxicity :**

METHYL TOLUENE-4-SULPHONATE (CAS: 28804-47-9)

Oral route : LD50 = 341 mg/kg  
Species : Rat

QUARTZ (CAS: 14808-60-7)

Oral route : LD50 > 2000 mg/kg  
Species : Rat

Dermal route : LD50 > 2000 mg/kg

REACTION PRODUCT: BISPHENOL- F ON- EPICHLORHYDRIN. EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT < 700) (CAS: 9003-36-5)

Oral route : LD50 > 2000 mg/kg  
Species : Rat

Dermal route : LD50 > 2000 mg/kg

**SG 715 NOIR - 943**

Species : Rabbit

REACTION PRODUCT: BISPHENOL-A- EPICHLORHYDRIN EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT <=700) (CAS: 25068-38-6)

Oral route : LD50 > 2000 mg/kg  
Species : Rat

Dermal route : LD50 > 2000 mg/kg  
Species : Rat  
OECD Guideline 402 (Acute Dermal Toxicity)

**Skin corrosion/skin irritation :**

REACTION PRODUCT: BISPHENOL-A- EPICHLORHYDRIN EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT <=700) (CAS: 25068-38-6)

Species : Rabbit  
OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

REACTION PRODUCT: BISPHENOL- F ON- EPICHLORHYDRIN. EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT < 700) (CAS: 9003-36-5)

Species : Rabbit  
OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

**Serious damage to eyes/eye irritation :**

REACTION PRODUCT: BISPHENOL- F ON- EPICHLORHYDRIN. EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT < 700) (CAS: 9003-36-5)

Conjunctival redness : Average score = 0  
Species : Rabbit

Conjunctival oedema : Average score = 0  
Species : Rabbit  
OECD Guideline 405 (Acute Eye Irritation / Corrosion)

**Respiratory or skin sensitisation :**

REACTION PRODUCT: BISPHENOL-A- EPICHLORHYDRIN EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT <=700) (CAS: 25068-38-6)

May cause an allergic skin reaction.

Local lymph node stimulation test : Sensitiser.  
Species : Mouse  
OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)

Guinea Pig Maximisation Test (GMPT) : Sensitiser.  
Species : Guinea pig  
OECD Guideline 406 (Skin Sensitisation)

Buehler Test : Sensitiser.  
Species : Guinea pig  
OECD Guideline 406 (Skin Sensitisation)

**Germ cell mutagenicity :**

REACTION PRODUCT: BISPHENOL-A- EPICHLORHYDRIN EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT <=700) (CAS: 25068-38-6)

Ames test (in vitro) : Positive.  
With or without metabolic activation.  
Species : S. typhimurium TA1535

**SG 715 NOIR - 943**

---

REACTION PRODUCT: BISPHENOL- F ON- EPICHLORHYDRIN. EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT < 700) (CAS: 9003-36-5)

Mutagenesis (in vitro) : Positive.

Ames test (in vitro) : Positive.

**Carcinogenicity :**

REACTION PRODUCT: BISPHENOL-A- EPICHLORHYDRIN EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT <=700) (CAS: 25068-38-6)

Carcinogenicity Test : Negative.  
No carcinogenic effect.  
Species : Rat  
OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)

**Reproductive toxicant :**

TRIMETHYLOLPROPANE TRIGLYCIDYLEETHER (CAS: 30499-70-8)

May damage fertility.

REACTION PRODUCT: BISPHENOL-A- EPICHLORHYDRIN EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT <=700) (CAS: 25068-38-6)

No toxic effect for reproduction

Study on development : Species : Rat  
OECD Guideline 416 (Two-Generation Reproduction Toxicity Study)

**11.1.2. Mixture**

**Respiratory or skin sensitisation :**

Contains epoxy compounds. May cause an allergic reaction.

**Monograph(s) from the IARC (International Agency for Research on Cancer) :**

CAS 14808-60-7 : IARC Group 1 : The agent is carcinogenic to humans.

---

**SECTION 12 : ECOLOGICAL INFORMATION**

Toxic to aquatic life with long lasting effects.

The product must not be allowed to run into drains or waterways.

**12.1. Toxicity**

**12.1.1. Substances**

METHYL TOLUENE-4-SULPHONATE (CAS: 28804-47-9)

Fish toxicity : LC50 >= 4.6 mg/l  
Species : Leuciscus idus  
Duration of exposure : 96 h

REACTION PRODUCT: BISPHENOL- F ON- EPICHLORHYDRIN. EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT < 700) (CAS: 9003-36-5)

Fish toxicity : LC50 = 2.54 mg/l  
Duration of exposure : 96 h

Crustacean toxicity : EC50 = 2.55 mg/l  
Species : Daphnia sp.  
Duration of exposure : 48 h  
OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

Algae toxicity : ECr50 > 1000 mg/l  
Species : Selenastrum capricornutum  
Duration of exposure : 72 h

**SG 715 NOIR - 943**

OECD Guideline 201 (Alga, Growth Inhibition Test)

REACTION PRODUCT: BISPHENOL-A- EPICHLORHYDRIN EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT <=700) (CAS: 25068-38-6)

Fish toxicity : LC50 = 1.3 mg/l  
Duration of exposure : 96 h  
OECD Guideline 203 (Fish, Acute Toxicity Test)

Crustacean toxicity : EC50 = 2.1 mg/l  
Duration of exposure : 48 h  
OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

NOEC = 0.3 mg/l  
Duration of exposure : 21 days  
OECD Guideline 211 (Daphnia magna Reproduction Test)

Algae toxicity : ECr50 > 11 mg/l  
Duration of exposure : 72 h

**12.1.2. Mixtures**

No aquatic toxicity data available for the mixture.

**12.2. Persistence and degradability**

**12.2.1. Substances**

METHYL TOLUENE-4-SULPHONATE (CAS: 28804-47-9)

Biodegradability : no degradability data is available, the substance is considered as not degrading quickly.

REACTION PRODUCT: BISPHENOL- F ON- EPICHLORHYDRIN. EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT < 700) (CAS: 9003-36-5)

Biodegradability : Non-rapidly degradable.

REACTION PRODUCT: BISPHENOL-A- EPICHLORHYDRIN EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT <=700) (CAS: 25068-38-6)

Biodegradability : no degradability data is available, the substance is considered as not degrading quickly.

**12.3. Bioaccumulative potential**

**12.3.1. Substances**

REACTION PRODUCT: BISPHENOL- F ON- EPICHLORHYDRIN. EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT < 700) (CAS: 9003-36-5)

Octanol/water partition coefficient : log K<sub>ow</sub> = 3.3

Bioaccumulation : BCF = 150

REACTION PRODUCT: BISPHENOL-A- EPICHLORHYDRIN EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT <=700) (CAS: 25068-38-6)

Octanol/water partition coefficient : log K<sub>ow</sub> = 3

**12.4. Mobility in soil**

No data available.

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

No data available.

**12.6. Other adverse effects**

No data available.

SG 715 NOIR - 943

**German regulations concerning the classification of hazards for water (WGK) :**

WGK 2 (VwVwS vom 27/07/2005, KBws) : Hazardous for water.

**SECTION 13 : DISPOSAL CONSIDERATIONS**

Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC.

**13.1. Waste treatment methods**

Do not pour into drains or waterways.

**Waste :**

Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.

Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.

Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

**Soiled packaging :**

Empty container completely. Keep label(s) on container.

Give to a certified disposal contractor.

**Codes of wastes (Decision 2014/955/EC, Directive 2008/98/EEC on hazardous waste) :**

07 01 08 \* other still bottoms and reaction residues

**SECTION 14 : TRANSPORT INFORMATION**

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2017 - IMDG 2016 - ICAO/IATA 2017).

**14.1. UN number**

3082

**14.2. UN proper shipping name**

UN3082=ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(reaction product: bisphenol-a- epichlorhydrin epoxy resin (number average molecular weight <=700), reaction product: bisphenol- f on- epichlorhydrin. epoxy resin (number average molecular weight < 700))

**14.3. Transport hazard class(es)**

- Classification :



9

**14.4. Packing group**

III

**14.5. Environmental hazards**

- Environmentally hazardous material :



**14.6. Special precautions for user**

ADR/RID	Class	Code	Pack gr.	Label	Ident.	LQ	Provis.	EQ	Cat.	Tunnel
	9	M6	III	9	90	5 L	274 335 375 601	E1	3	-

Not subject to this regulation if Q <= 5 l / 5 kg (ADR 3.3.1 - DS 375)

IMDG	Class	2°Label	Pack gr.	LQ	EMS	Provis.	EQ
	9	-	III	5 L	F-A,S-F	274 335 969	E1

Not subject to this regulation if Q <= 5 l / 5 kg (IMDG 3.3.1 - 2.10.2.7)

**SG 715 NOIR - 943**

IATA	Class	2°Label	Pack gr.	Passager	Passager	Cargo	Cargo	note	EQ
	9	-	III	964	450 L	964	450 L	A97 A158 A197	E1
	9	-	III	Y964	30 kg G	-	-	A97 A158 A197	E1

Not subject to this regulation if  $Q \leq 5 \text{ l} / 5 \text{ kg}$  (IATA 4.4.4 - DS A197)

For limited quantities, see part 2.7 of the OACI/IATA and chapter 3.4 of the ADR and IMDG.

For excepted quantities, see part 2.6 of the OACI/IATA and chapter 3.5 of the ADR and IMDG.

**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**

**- Classification and labelling information included in section 2:**

The following regulations have been used:

- EU Regulation No. 1272/2008 amended by EU Regulation No. 2017/776 (ATP 10)

**- Container information:**

No data available.

**Usage restrictions apply to the product : See annex XVII of EC regulation No. 1907/2006.**

For professional users only.

**- Particular provisions :**

No data available.

**- German regulations concerning the classification of hazards for water (WGK) :**

WGK 2 (VwVwS vom 27/07/2005, KBws) : Hazardous for water.

**- Standardised American system for the identification of hazards presented by the product in view of emergency procedures (NFPA 704) :**

NFPA 704, Labelling: Health=3 Inflammability=3 Instability/Reactivity=1 Specific Risk=none



**15.2. Chemical safety assessment**

No data available.

**SECTION 16 : OTHER INFORMATION**

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.

**Wording of the phrases mentioned in section 3 :**

H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.

**SG 715 NOIR - 943**

---

H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H360F	May damage fertility.
H373	May cause damage to organs through prolonged or repeated exposure .
H411	Toxic to aquatic life with long lasting effects.

**Abbreviations :**

DNEL : Derived No-Effect Level

PNEC : Predicted No-Effect Concentration

CMR: Carcinogenic, mutagenic or reprotoxic.

ADR : European agreement concerning the international carriage of dangerous goods by Road.

IMDG : International Maritime Dangerous Goods.

IATA : International Air Transport Association.

ICAO : International Civil Aviation Organisation

RID : Regulations concerning the International carriage of Dangerous goods by rail.

WGK : Wassergefährdungsklasse (Water Hazard Class).

GHS05 : Corrosion

GHS07 : Exclamation mark

GHS08 : Health hazard

GHS09 : Environment

PBT: Persistent, bioaccumulable and toxic.

vPvB : Very persistent, very bioaccumulable.

SVHC : Substances of very high concern.



## SAFETY DATA SHEET

(REACH regulation (EC) n° 1907/2006 - n° 2015/830)

### SECTION 1 : IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1. Product identifier

Product name : SD 802

Product code : 1722.

Hardener for epoxy resin

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

Hardener

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

Registered company name : SICOMIN Composites.

Address : 31 avenue de la Lardiere - BP 23.13161.Chateauneuf les Martigues.France.

Telephone : +33 (0)4 42 42 30 20. Fax : +33 (0)4 42 81 29 29.

e-mail: composites@sicomin.com

Site web : <http://www.sicomin.com>

#### 1.4. Emergency telephone number : .

Association/Organisation : INRS / ORFILA tél: +33(0)1.45.42.59.59 - (FRANCE) .

#### Other emergency numbers

Health and Safety Executive (HSE) Chemicals Regulation Directorate - Telephone: +44 151 951 3317

### SECTION 2 : HAZARDS IDENTIFICATION

#### 2.1. Classification of the substance or mixture

##### In compliance with EC regulation No. 1272/2008 and its amendments.

Acute oral toxicity, Category 4 (Acute Tox. 4, H302).

Acute dermal toxicity, Category 4 (Acute Tox. 4, H312).

Skin corrosion, Category 1B (Skin Corr. 1B, H314).

Serious eye damage, Category 1 (Eye Dam. 1, H318).

Skin sensitisation, Category 1 (Skin Sens. 1, H317).

Hazardous to the aquatic environment - Chronic hazard, Category 3 (Aquatic Chronic 3, H412).

This mixture does not present a physical hazard. Refer to the recommendations regarding the other products present on the site.

#### 2.2. Label elements

##### In compliance with EC regulation No. 1272/2008 and its amendments.

Hazard pictograms :



GHS07



GHS05

Signal Word :

DANGER

Product identifiers :

EC 220-666-8

603-057-00-5

EC 500-105-6

3-AMINOMETHYL-3,5,5-TRIMETHYL-CYCLOHEXYLAMINE

BENZYL ALCOHOL

POLYALKYL AMINES

Hazard statements :

H302 + H312

Harmful if swallowed or in contact with skin.



**SD 802 - 1722**

H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H412	Harmful to aquatic life with long lasting effects.
Precautionary statements - Prevention :	
P264	Wash hands thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
Precautionary statements - Response :	
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**2.3. Other hazards**

The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC)  $\geq 0.1\%$  published by the European Chemicals Agency (ECHA) under article 57 of REACH: <http://echa.europa.eu/fr/candidate-list-table>

The mixture satisfies neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.

**SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS**

**3.2. Mixtures**

**Composition :**

Identification	(EC) 1272/2008	Note	%
CAS: 2855-13-2 EC: 220-666-8  3-AMINOMETHYL-3,5,5-TRIMETHYL-CYCL OHEXYLAMINE	GHS07, GHS05 Dgr Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1B, H314 Skin Sens. 1, H317 Aquatic Chronic 3, H412		50 $\leq$ x % < 100
INDEX: 603-057-00-5 CAS: 100-51-6 EC: 202-859-9 REACH: 01-2119492630-38-XXXX  BENZYL ALCOHOL	GHS07 Wng Acute Tox. 4, H332 Acute Tox. 4, H302		10 $\leq$ x % < 25
CAS: 39423-51-3 EC: 500-105-6 REACH: 01-2119556886-20-XXXX  POLYALKYL AMINES	GHS07, GHS05, GHS09 Dgr Acute Tox. 4, H302 Acute Tox. 4, H312 Eye Dam. 1, H318 Aquatic Chronic 2, H411		2.5 $\leq$ x % < 10
INDEX: 612-074-00-7 CAS: 103-83-3 EC: 203-149-1  BENZYLDIMETHYLAMINE	GHS02, GHS05, GHS07 Dgr Flam. Liq. 3, H226 Acute Tox. 4, H332 Acute Tox. 4, H312 Acute Tox. 4, H302 Skin Corr. 1B, H314 Aquatic Chronic 3, H412		1 $\leq$ x % < 2.5

**SECTION 4 : FIRST AID MEASURES**

As a general rule, in case of doubt or if symptoms persist, always call a doctor.

NEVER induce swallowing by an unconscious person.

**4.1. Description of first aid measures**

**In the event of exposure by inhalation :**

If inhaled, move the patient to fresh air and keep warm and rest.

**SD 802 - 1722**

---

**In the event of splashes or contact with eyes :**

Wash thoroughly with fresh, clean water for 15 minutes holding the eyelids open.

Regardless of the initial state, refer the patient to an ophthalmologist and show him the label.

Flush with large amounts of water. Remove contact lenses if the victim is. Continue to rinse. Seek medical attention if symptoms persist.

**In the event of splashes or contact with skin :**

Remove contaminated clothing and wash the skin thoroughly with soap and water or a recognised cleaner.

Remove any soiled or splashed clothing immediately.

Watch out for any remaining product between skin and clothing, watches, shoes, etc.

In the event of an allergic reaction, seek medical attention.

If the contaminated area is widespread and/or there is damage to the skin, a doctor must be consulted or the patient transferred to hospital.

**In the event of swallowing :**

Do not give the patient anything orally.

In the event of swallowing, if the quantity is small (no more than one mouthful), rinse the mouth with water, administer activated medical charcoal and consult a doctor.

Seek medical attention immediately, showing the label.

If swallowed accidentally, call a doctor to ascertain whether observation and hospital care will be necessary. Show the label.

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

No data available.

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

**Information for the doctor :**

In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to remain under medical supervision for 48 hours.

Contact a specialist for treatment poisoning if large quantities have been ingested or inhaled.

---

**SECTION 5 : FIREFIGHTING MEASURES**

Non-flammable.

**5.1. Extinguishing media**

**Suitable methods of extinction**

In the event of a fire, use :

- sprayed water or water mist
- foam
- multipurpose ABC powder
- BC powder
- carbon dioxide (CO<sub>2</sub>)

**Unsuitable methods of extinction**

In the event of a fire, do not use :

- water jet

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

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health.

Do not breathe in smoke.

In the event of a fire, the following may be formed :

- carbon monoxide (CO)
- carbon dioxide (CO<sub>2</sub>)
- sulphur dioxide (SO<sub>2</sub>)
- nitrogen oxide (NO)
- nitrogen dioxide (NO<sub>2</sub>)

**5.3. Advice for firefighters**

Firefighters should wear suitable protective clothing and a respirator mask with self- full operated in positive pressure mode.

Wear conform with the European standard EN 469.

## SECTION 6 : ACCIDENTAL RELEASE MEASURES

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

Consult the safety measures listed under headings 7 and 8.

#### For non first aid worker

Avoid any contact with the skin and eyes.

#### For first aid worker

First aid workers will be equipped with suitable personal protective equipment (See section 8).

### 6.2. Environmental precautions

Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal.

Prevent any material from entering drains or waterways.

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

Clean preferably with a detergent, do not use solvents.

### 6.4. Reference to other sections

No data available.

---

## SECTION 7 : HANDLING AND STORAGE

Requirements relating to storage premises apply to all facilities where the mixture is handled.

Individuals with a history of skin sensitisation should not, under any circumstance, handle this mixture.

### 7.1. Precautions for safe handling

Always wash hands after handling.

Remove and wash contaminated clothing before re-using.

Emergency showers and eye wash stations will be required in facilities where the mixture is handled constantly.

#### Fire prevention :

Prevent access by unauthorised personnel.

#### Recommended equipment and procedures :

For personal protection, see section 8.

Observe precautions stated on label and also industrial safety regulations.

#### Prohibited equipment and procedures :

No smoking, eating or drinking in areas where the mixture is used.

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

No data available.

#### Storage

Keep away from food and drink, including those for animals.

Store in original container protected from direct sunlight in a dry, cool and well ventilated area away from heat sources.

Keep container tightly closed in a dry place.

#### Packaging

Always keep in packaging made of an identical material to the original.

### 7.3. Specific end use(s)

Hardener

---

## SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

No data available.

#### Derived no effect level (DNEL) or derived minimum effect level (DMEL):

POLYALKYLAMINES (CAS: 39423-51-3)

**SD 802 - 1722**

---

**Final use:**

Exposure method:  
Potential health effects:  
DNEL :

**Workers.**

Dermal contact.  
Long term systemic effects.  
1.6 mg/kg body weight/day

Exposure method:  
Potential health effects:  
DNEL :

Inhalation.  
Long term systemic effects.  
14 mg of substance/m<sup>3</sup>

**Final use:**

Exposure method:  
Potential health effects:  
DNEL :

**Consumers.**

Dermal contact.  
Long term systemic effects.  
0.8 mg/kg body weight/day

Exposure method:  
Potential health effects:  
DNEL :

Inhalation.  
Long term systemic effects.  
3.48 mg of substance/m<sup>3</sup>

**3-AMINOMETHYL-3,5,5-TRIMETHYL-CYCLOHEXYLAMINE (CAS: 2855-13-2)**

**Final use:**

Exposure method:  
Potential health effects:  
DNEL :

**Workers.**

Inhalation.  
Short term systemic effects.  
20.1 mg of substance/m<sup>3</sup>

Exposure method:  
Potential health effects:  
DNEL :

Inhalation.  
Short term local effects.  
20.1 mg of substance/m<sup>3</sup>

**Final use:**

Exposure method:  
Potential health effects:  
DNEL :

**Man exposed via the environment.**

Ingestion.  
Long term systemic effects.  
0.526 mg/kg body weight/day

**Predicted no effect concentration (PNEC):**

**POLYALKYL AMINES (CAS: 39423-51-3)**

Environmental compartment:  
PNEC :

Soil.  
0.002 mg/kg

Environmental compartment:  
PNEC :

Fresh water.  
0.0044 mg/l

Environmental compartment:  
PNEC :

Sea water.  
0.00044 mg/l

Environmental compartment:  
PNEC :

Intermittent waste water.  
0.044 mg/l

Environmental compartment:  
PNEC :

Fresh water sediment.  
0.02 mg/kg

Environmental compartment:  
PNEC :

Marine sediment.  
0.002 mg/kg

Environmental compartment:

Waste water treatment plant.

**SD 802 - 1722**

PNEC : 10 mg/l

**3-AMINOMETHYL-3,5,5-TRIMETHYL-CYCLOHEXYLAMINE (CAS: 2855-13-2)**

Environmental compartment: Soil.  
PNEC : 1.121 mg/kg

Environmental compartment: Fresh water.  
PNEC : 0.06 mg/l

Environmental compartment: Sea water.  
PNEC : 0.006 mg/l

Environmental compartment: Intermittent waste water.  
PNEC : 0.23 mg/l

Environmental compartment: Fresh water sediment.  
PNEC : 5.784 mg/kg

Environmental compartment: Marine sediment.  
PNEC : 0.578 mg/kg

Environmental compartment: Waste water treatment plant.  
PNEC : 3.18 mg/l

## 8.2. Exposure controls

Use only with adequate ventilation or provided with ventilation at the source.

### Personal protection measures, such as personal protective equipment

Pictogram(s) indicating the obligation of wearing personal protective equipment (PPE) :



Use personal protective equipment that is clean and has been properly maintained.

Store personal protective equipment in a clean place, away from the work area.

Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

#### - Eye / face protection

Avoid contact with eyes.

Use eye protectors designed to protect against liquid splashes

Before handling, wear safety goggles with protective sides accordance with standard EN166.

In the event of high danger, protect the face with a face shield.

Prescription glasses are not considered as protection.

Individuals wearing contact lenses should wear prescription glasses during work where they may be exposed to irritant vapours.

Provide eyewash stations in facilities where the product is handled constantly.

#### - Hand protection

Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN374.

Gloves must be selected according to the application and duration of use at the workstation.

Protective gloves need to be selected according to their suitability for the workstation in question : other chemical products that may be handled, necessary physical protections (cutting, pricking, heat protection), level of dexterity required.

Type of gloves recommended :

- Nitrile rubber (butadiene-acrylonitrile copolymer rubber (NBR))

- Butyl Rubber (Isobutylene-isoprene copolymer)

**SD 802 - 1722**

---

Recommended properties :

- Impervious gloves in accordance with standard EN374

**- Body protection**

Avoid skin contact.

Wear suitable protective clothing.

In the event of substantial spatter, wear liquid-tight protective clothing against chemical risks (type 3) in accordance with EN14605 to prevent skin contact.

In the event of a risk of splashing, wear protective clothing against chemical risks (type 6) in accordance with EN13034 to prevent skin contact.

Wear suitable protective clothing and, in particular, an apron and boots. These items of clothing shall be maintained in good condition and cleaned after use.

Work clothing worn by personnel shall be laundered regularly.

After contact with the product, all parts of the body that have been soiled must be washed.

**- Respiratory protection**

Anti-gas and vapour filter(s) (Combined filters) in accordance with standard EN14387 :

Mask with filter type A, B, E, K, P

Attention! If the protection group is insufficient.

---

**SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES**

**9.1. Information on basic physical and chemical properties**

**General information :**

Physical state :

Fluid liquid.

Color:

colorless

**Important health, safety and environmental information**

pH :

Not relevant.

Boiling point/boiling range :

Not relevant.

Flash Point Interval :

FP > 100°C.

Vapour pressure (50°C) :

Not relevant.

Density :

0.96 ± 0.02 @ 20°C

Water solubility :

Insoluble.

Melting point/melting range :

Not relevant.

Self-ignition temperature :

Not relevant.

Decomposition point/decomposition range :

Not relevant.

**9.2. Other information**

No data available.

---

**SECTION 10 : STABILITY AND REACTIVITY**

**10.1. Reactivity**

No data available.

**10.2. Chemical stability**

This mixture is stable under the recommended handling and storage conditions in section 7.

**10.3. Possibility of hazardous reactions**

No data available.

**10.4. Conditions to avoid**

No data available.

**10.5. Incompatible materials**

No data available.

**10.6. Hazardous decomposition products**

The thermal decomposition may release/form :

- carbon monoxide (CO)

- carbon dioxide (CO<sub>2</sub>)

**SD 802 - 1722**

- nitrogen oxide (NO)
- nitrogen dioxide (NO<sub>2</sub>)

**SECTION 11 : TOXICOLOGICAL INFORMATION**

**11.1. Information on toxicological effects**

Harmful if swallowed.

Harmful in contact with skin.

May cause irreversible damage to the skin; namely, visible necrosis through the epidermis and into the dermis, following exposure between three minutes and one hour.

Corrosive reactions are typified by ulcers, bleeding, bloody scabs, and, by the end of observation at 14 days, by discolouration due to blanching of the skin, complete areas of alopecia, and scars.

May cause an allergic reaction by skin contact.

**11.1.1. Substances**

**Acute toxicity :**

POLYALKYL AMINES (CAS: 39423-51-3)

Oral route : LD50 = 550 mg/kg  
Species : Rat

Dermal route : LD50 > 1000 mg/kg  
Species : Rat

3-AMINOMETHYL-3,5,5-TRIMETHYL-CYCLOHEXYLAMINE (CAS: 2855-13-2)

Oral route : LD50 = 1030 mg/kg  
Species : Rat

Dermal route : LD50 > 2000 mg/kg  
Species : Rat  
OECD Guideline 402 (Acute Dermal Toxicity)

Inhalation route (Dusts/mist) : LC50 > 5.01 mg/l  
Species : Rat  
OECD Guideline 403 (Acute Inhalation Toxicity)

**Skin corrosion/skin irritation :**

POLYALKYL AMINES (CAS: 39423-51-3)

Species : Rabbit  
OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

Species : Rabbit  
OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

**Respiratory or skin sensitisation :**

3-AMINOMETHYL-3,5,5-TRIMETHYL-CYCLOHEXYLAMINE (CAS: 2855-13-2)

Species : Rabbit  
OECD Guideline 406 (Skin Sensitisation)

**Reproductive toxicant :**

POLYALKYL AMINES (CAS: 39423-51-3)

Study on development : Species : Rat  
OECD Guideline 421 (Reproduction / Developmental Toxicity Screening Test)

**Specific target organ systemic toxicity - repeated exposure :**

POLYALKYL AMINES (CAS: 39423-51-3)

**SD 802 - 1722**

Dermal route : C > 160 mg/kg bodyweight/jour  
Duration of exposure : 90 days  
OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study)

**11.1.2. Mixture**

No toxicological data available for the mixture.

---

**SECTION 12 : ECOLOGICAL INFORMATION**

Harmful to aquatic life with long lasting effects.

The product must not be allowed to run into drains or waterways.

**12.1. Toxicity**

**12.1.1. Substances**

POLYALKYL AMINES (CAS: 39423-51-3)

Algae toxicity : EC<sub>50</sub> = 1 mg/l  
Duration of exposure : 72 h

3-AMINOMETHYL-3,5,5-TRIMETHYL-CYCLOHEXYLAMINE (CAS: 2855-13-2)

Fish toxicity : LC<sub>50</sub> = 110 mg/l  
Species : *Leuciscus idus*  
Duration of exposure : 96 h

Crustacean toxicity : EC<sub>50</sub> = 23 mg/l  
Species : *Daphnia magna*  
Duration of exposure : 48 h  
OECD Guideline 202 (*Daphnia* sp. Acute Immobilisation Test)

NOEC = 3 mg/l  
Species : *Daphnia magna*  
Duration of exposure : 21 days  
OECD Guideline 202 (*Daphnia* sp. Acute Immobilisation Test)

Algae toxicity : EC<sub>50</sub> > 50 mg/l  
Species : *Desmodesmus subspicatus*  
Duration of exposure : 72 h

NOEC = 1.5 mg/l  
Species : *Desmodesmus subspicatus*  
Duration of exposure : 72 h  
Other guideline

**12.1.2. Mixtures**

No aquatic toxicity data available for the mixture.

**12.2. Persistence and degradability**

**12.2.1. Substances**

POLYALKYL AMINES (CAS: 39423-51-3)

Biodegradability : no degradability data is available, the substance is considered as not degrading quickly.

3-AMINOMETHYL-3,5,5-TRIMETHYL-CYCLOHEXYLAMINE (CAS: 2855-13-2)

Biodegradability : no degradability data is available, the substance is considered as not degrading quickly.



SD 802 - 1722

**12.3. Bioaccumulative potential**

**12.3.1. Substances**

3-AMINOMETHYL-3,5,5-TRIMETHYL-CYCLOHEXYLAMINE (CAS: 2855-13-2)

Octanol/water partition coefficient :

log K<sub>ow</sub> = 0.99

OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)

**12.4. Mobility in soil**

No data available.

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

No data available.

**12.6. Other adverse effects**

No data available.

**German regulations concerning the classification of hazards for water (WGK) :**

WGK 1 (VwVwS vom 27/07/2005, KBws) : Slightly hazardous for water.

**SECTION 13 : DISPOSAL CONSIDERATIONS**

Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC.

**13.1. Waste treatment methods**

Do not pour into drains or waterways.

**Waste :**

Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.

Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.

Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

**Soiled packaging :**

Empty container completely. Keep label(s) on container.

Give to a certified disposal contractor.

**Codes of wastes (Decision 2001/573/EC, Directive 2006/12/EEC, Directive 94/31/EEC on hazardous waste) :**

07 01 08 \* other still bottoms and reaction residues

**SECTION 14 : TRANSPORT INFORMATION**

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2015 - IMDG 2014 - ICAO/IATA 2016).

**14.1. UN number**

2735

**14.2. UN proper shipping name**

UN2735=AMINES, LIQUID, CORROSIVE, N.O.S. or POLYAMINES, LIQUID, CORROSIVE, N.O.S.

(3-aminomethyl-3,5,5-trimethyl-cyclohexylamine, polyalkyl amines)

**14.3. Transport hazard class(es)**

- Classification :



8

**14.4. Packing group**

III

**14.5. Environmental hazards**

-

**SD 802 - 1722**

**14.6. Special precautions for user**

ADR/RID	Class	Code	Pack gr.	Label	Ident.	LQ	Provis.	EQ	Cat.	Tunnel
	8	C7	III	8	80	5 L	274	E1	3	E

IMDG	Class	2°Label	Pack gr.	LQ	EMS	Provis.	EQ
	8	-	III	5 L	F-A,S-B	223 274	E1

IATA	Class	2°Label	Pack gr.	Passager	Passager	Cargo	Cargo	note	EQ
	8	-	III	852	5 L	856	60 L	A3 A803	E1
	8	-	III	Y841	1 L	-	-	A3 A803	E1

For limited quantities, see part 2.7 of the OACI/IATA and chapter 3.4 of the ADR and IMDG.

For excepted quantities, see part 2.6 of the OACI/IATA and chapter 3.5 of the ADR and IMDG.

**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**

**- Classification and labelling information included in section 2:**

The following regulations have been used:

- EU Regulation No. 1272/2008 amended by EU Regulation No. 2016/1179. (ATP 9)

**- Container information:**

No data available.

**- Particular provisions :**

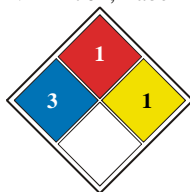
No data available.

**- German regulations concerning the classification of hazards for water (WGK) :**

WGK 1 (VwVwS vom 27/07/2005, KBws) : Slightly hazardous for water.

**- Standardised American system for the identification of hazards presented by the product in view of emergency procedures (NFPA 704) :**

NFPA 704, Labelling: Health=3 Inflammability=1 Instability/Reactivity=1 Specific Risk=none



**15.2. Chemical safety assessment**

No data available.

**SECTION 16 : OTHER INFORMATION**

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.

**Wording of the phrases mentioned in section 3 :**

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H302 + H312	Harmful if swallowed or in contact with skin.

**SD 802 - 1722**

---

H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H332	Harmful if inhaled.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

**Abbreviations :**

DNEL : Derived No-Effect Level

PNEC : Predicted No-Effect Concentration

ADR : European agreement concerning the international carriage of dangerous goods by Road.

IMDG : International Maritime Dangerous Goods.

IATA : International Air Transport Association.

ICAO : International Civil Aviation Organisation

RID : Regulations concerning the International carriage of Dangerous goods by rail.

WGK : Wassergefährdungsklasse (Water Hazard Class).

GHS05 : Corrosion

GHS07 : Exclamation mark

PBT: Persistent, bioaccumulable and toxic.

vPvB : Very persistent, very bioaccumulable.

SVHC : Substances of very high concern.