



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 166 GM
Product code : 1691.
EPOXY RESIN
UFI : 4HY5-W0M3-Q00U-MQ8Y

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>
AUSTRALIAN Importer : Lavender CE Pty Ltd - 108 Westgate Street - Wacol, Qld, 4076 AUSTRALIA / M: 0409 892 032 / Ph: +61 7 3255 6924 /
Fax: +61 7 3255 6923 / Web: www.lavender-ce.com / Email: sheading@lavender-ce.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 -
AUSTRALIA : Emergency Poison Advice : 131 126

SECTION 2 : HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

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

Skin irritation, Category 2 (Skin Irrit. 2, H315).
Eye irritation, Category 2 (Eye Irrit. 2, H319).
Skin sensitisation, Category 1 (Skin Sens. 1, H317).
Germ cell mutagenicity, Category 2 (Muta. 2, H341).
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 :



GHS07

GHS08

GHS09

Signal Word :

WARNING

Product identifiers :

EC 216-823-5

2,2'-[(1-METHYLETHYLIDENE)BIS(4,1-PHENYLENEOXYMETHYLENE)]BISOXIRANE
DIGLYCIDYL ANILINE

EC 218-259-5

Additional labeling :

EUH205

Contains epoxy constituents. May produce an allergic reaction.

Hazard statements :

H315 Causes skin irritation.
 H317 May cause an allergic skin reaction.
 H319 Causes serious eye irritation.
 H341 Suspected of causing genetic defects .
 H411 Toxic to aquatic life with long lasting effects.

Precautionary statements - General :

P102 Keep out of reach of children.

Precautionary statements - Prevention :

P202 Do not handle until all safety precautions have been read and understood.
 P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
 P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/
 ...

Precautionary statements - Response :

P362 + P364 Take off contaminated clothing and wash it before reuse.

Precautionary statements - Storage :

P405 Store locked up.

Precautionary statements - Disposal :

P501 Dispose of contents/container to ...

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: 1675-54-3 EC: 216-823-5 REACH: 01-2119456619-26-XXXX 2,2'-[(1-METHYLETHYLIDENE)BIS(4,1-PHENYLENEOXYMETHYLENE)]BISOXIRANE	GHS07, GHS09 Wng Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319 Aquatic Chronic 2, H411		50 \leq x % < 100
CAS: 2095-06-9 EC: 218-259-5 REACH: 01-2120782027-53-XXXX DIGLYCIDYL ANILINE	GHS07, GHS09, GHS08 Wng Acute Tox. 4, H302 Skin Sens. 1, H317 Muta. 2, H341 Aquatic Chronic 2, H411	[2]	10 \leq x % < 25
CAS: 12001-26-2 EC: 601-648-2 REACH: N.A - Annexe V.7 MICA MU 85		[1]	2.5 \leq x % < 10
CAS: 7782-42-5 EC: 231-955-3 REACH: 01-2119486977-12-XXXX GRAPHITE POWDER		[1]	2.5 \leq x % < 10

(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 :

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.

If there is any redness, pain or visual impairment, consult an ophthalmologist.

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.

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.

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 (CO₂)

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.

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.

Avoid skin and eye contact with this mixture.

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

Keep out of reach of children.

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)

Suggested application : Epoxy tooling gelcoat, matrix

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 :
12001-26-2	3 (R) mg/m ³				
7782-42-5	2 (R) mg/m ³				

- China (GBZ 2.1, 2007) :

CAS	TWA :	STEL :	Anm :	TWA :	STEL :	Anm :
12001-26-2	2 mg/m ³					
7782-42-5	4 mg/m ³					

- France (INRS - ED984 / 2019-1487) :

CAS	VME-ppm :	VME-mg/m ³ :	VLE-ppm :	VLE-mg/m ³ :	Notes :	TMP No :
7782-42-5	-	2 A	-	-	-	25

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

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
12001-26-2	- ppm 0.8 mg/m ³	- ppm - mg/m ³			

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

GRAPHITE POWDER (CAS: 7782-42-5)

Final use:

Exposure method:

Potential health effects:

DNEL :

Workers.

Inhalation.

Long term local effects.

1.2 mg of substance/m³

Final use:

Exposure method:

Potential health effects:

DNEL :

Consumers.

Ingestion.

Long term systemic effects.

813 mg/kg body weight/day

Exposure method: Inhalation.
Potential health effects: Long term local effects.
DNEL : 0.3 mg of substance/m3

DIGLYCIDYL ANILINE (CAS: 2095-06-9)**Final use:****Workers.**

Exposure method: Dermal contact.
Potential health effects: Long term systemic effects.
DNEL : 0.33 mg/kg body weight/day

Exposure method: Dermal contact.
Potential health effects: Short term systemic effects.
DNEL : 0.33 mg/kg body weight/day

Exposure method: Dermal contact.
Potential health effects: Short term systemic effects.
DNEL : 0.167 mg/kg body weight/day

Exposure method: Inhalation.
Potential health effects: Long term systemic effects.
DNEL : 1.17 mg of substance/m3

Exposure method: Inhalation.
Potential health effects: Short term systemic effects.
DNEL : 1.17 mg of substance/m3

Exposure method: Inhalation.
Potential health effects: Short term systemic effects.
DNEL : 0.59 mg of substance/m3

Final use:**Consumers.**

Exposure method: Ingestion.
Potential health effects: Long term systemic effects.
DNEL : 0.167 mg/kg body weight/day

Exposure method: Ingestion.
Potential health effects: Short term systemic effects.
DNEL : 0.167 mg/kg body weight/day

Exposure method: Dermal contact.
Potential health effects: Long term systemic effects.
DNEL : 0.167 mg/kg body weight/day

Exposure method: Inhalation.
Potential health effects: Long term systemic effects.
DNEL : 0.59 mg of substance/m3

2,2'-[(1-METHYLETHYLIDENE)BIS(4,1-PHENYLENEOXYMETHYLENE)]BISOXIRANE (CAS: 1675-54-3)**Final use:****Workers.**

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):

DIGLYCIDYL ANILINE (CAS: 2095-06-9)

Environmental compartment: Soil.
PNEC : 0.048 mg/kg

Environmental compartment: Fresh water.
PNEC : 4.2 µg/l

Environmental compartment: Sea water.
PNEC : 0.42 µg/l

Environmental compartment: Fresh water sediment.
PNEC : 0.072 mg/kg

Environmental compartment: Marine sediment.
PNEC : 0.0072 mg/kg

Environmental compartment: Waste water treatment plant.
PNEC : 1 mg/l

2,2'-[(1-METHYLETHYLIDENE)BIS(4,1-PHENYLENEOXYMETHYLENE)]BISOXIRANE (CAS: 1675-54-3)

Environmental compartment: Soil.
PNEC : 0.05 mg/kg

Environmental compartment: Fresh water.
PNEC : 3 µg/l

Environmental compartment: Sea water.
PNEC : 0.3 µg/l

Environmental compartment: Intermittent waste water.
PNEC : 0.013 mg/l

Environmental compartment: Fresh water sediment.
PNEC : 0.5 mg/kg

Environmental compartment:	Marine sediment.
PNEC :	0.5 mg/kg
Environmental compartment:	Waste water treatment plant.
PNEC :	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

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 EN ISO 374-1.

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 EN ISO 374-2

- 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/A1 to prevent skin contact.

In the event of a risk of splashing, wear protective clothing against chemical risks (type 6) in accordance with EN13034/A1 to prevent skin contact.

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 :	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 :	1.23 ± 0.02 @ 20 °C
Water solubility :	Insoluble.
Viscosity :	38 250 ± 7 750 mPa.s @ 25 °C
Melting point/melting range :	Not relevant.
Self-ignition temperature :	Not relevant.
Decomposition point/decomposition range :	Not relevant.
Index of refraction :	1.5665 ± 0.002 @ 25 °C

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 (CO₂)

SECTION 11 : TOXICOLOGICAL INFORMATION**11.1. Information on toxicological effects**

May cause irreversible damage to the skin; namely inflammation of the skin or the formation of erythema and eschar or oedema following exposure up to four hours.

May have reversible effects on the eyes, such as eye irritation which is totally reversible by the end of observation at 21 days.

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.

Cause for concern owing to the possibility that it may induce heritable mutations in the germ cells of humans.

11.1.1. Substances**Acute toxicity :**

GRAPHITE POWDER (CAS: 7782-42-5)

Oral route :

LD50 > 2000 mg/kg

Species : Rat

OCDE Ligne directrice 423 (Toxicité aiguë par voie orale - Méthode de la classe de toxicité aiguë)

Inhalation route (Dusts/mist) :

LC50 > 2000 mg/l

Species : Rat

OCDE Ligne directrice 403 (Toxicité aiguë par inhalation)

DIGLYCIDYL ANILINE (CAS: 2095-06-9)

Oral route :

LD50 = 1037 mg/kg

Species : Rat

OCDE Ligne directrice 401 (Toxicité aiguë par voie orale)

Dermal route :

LD50 > 4000 mg/kg

Species : Rat

OCDE Ligne directrice 402 (Toxicité aiguë par voie cutanée)

2,2'-[(1-METHYLETHYLIDENE)BIS(4,1-PHENYLENEOXYMETHYLENE)]BISOXIRANE (CAS: 1675-54-3)

Oral route : LD50 = 11400 mg/kg
Species : Rat

Dermal route : LD50 = 2000 mg/kg
Species : Rat

Skin corrosion/skin irritation :

GRAPHITE POWDER (CAS: 7782-42-5)

Species : Rabbit
OCDE Ligne directrice 404 (Effet irritant/corrosif aigu sur la peau.)

Species : Rabbit
OCDE Ligne directrice 404 (Effet irritant/corrosif aigu sur la peau.)

2,2'-[(1-METHYLETHYLIDENE)BIS(4,1-PHENYLENEOXYMETHYLENE)]BISOXIRANE (CAS: 1675-54-3)

Species : Rabbit
OCDE Ligne directrice 404 (Effet irritant/corrosif aigu sur la peau.)

Respiratory or skin sensitisation :

GRAPHITE POWDER (CAS: 7782-42-5)

Local lymph node stimulation test :

Non-Sensitiser.
Species : Mouse
OCDE Ligne directrice 429 (Sensibilisation cutanée, Essai des ganglions lymphatiques locaux)

Guinea Pig Maximisation Test (GMPT) :

Non-sensitiser.
Species : Mouse
OCDE Ligne directrice 429 (Sensibilisation cutanée, Essai des ganglions lymphatiques locaux)

DIGLYCIDYL ANILINE (CAS: 2095-06-9)

May cause an allergic skin reaction.

Local lymph node stimulation test :

Sensitiser.
Species : Mouse
OCDE Ligne directrice 429 (Sensibilisation cutanée, Essai des ganglions lymphatiques locaux)

Guinea Pig Maximisation Test (GMPT) :

Sensitiser.
Species : Guinea pig

Germ cell mutagenicity :

DIGLYCIDYL ANILINE (CAS: 2095-06-9)

Mutagenesis (in vitro) :

Positive.
Species : Bacteria
OCDE Ligne directrice 471 (Essai de mutation réverse sur des bactéries)

Ames test (in vitro) :

Positive.
With or without metabolic activation.

GRAPHITE POWDER (CAS: 7782-42-5)

No mutagenic effect.
OCDE Ligne directrice 471 (Essai de mutation réverse sur des bactéries)

Reproductive toxicant :

GRAPHITE POWDER (CAS: 7782-42-5)

No toxic effect for reproduction

OCDE Ligne directrice 422 (Étude combinée de toxicité à doses répétées et de dépistage de la toxicité pour la reproduction et le développement)

DIGLYCIDYL ANILINE (CAS: 2095-06-9)

No toxic effect for reproduction

Study on fertility :

Species : Rat

Study on development : Species : Rat
OCDE Ligne directrice 422 (Étude combinée de toxicité à doses répétées et de dépistage de la toxicité pour la reproduction et le développement)

Specific target organ systemic toxicity - repeated exposure :

GRAPHITE POWDER (CAS: 7782-42-5)

Oral route : C = 813 mg/kg poids corporel/jour
Species : Rat
Duration of exposure : 90 jours
OCDE Ligne directrice 422 (Étude combinée de toxicité à doses répétées et de dépistage de la toxicité pour la reproduction et le développement)

Inhalation route : C = 12 mg/litre/6h/jour
Species : Rat
Duration of exposure : 28 jours
OCDE Ligne directrice 412 (Toxicité subaiguë par inhalation : étude sur 28 jours)

DIGLYCIDYL ANILINE (CAS: 2095-06-9)

Oral route : C = 100 mg/kg poids corporel/jour
Species : Rat
Duration of exposure : 28 jours
OCDE Ligne directrice 422 (Étude combinée de toxicité à doses répétées et de dépistage de la toxicité pour la reproduction et le développement)

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.
CAS 108-94-1 : IARC Group 3 : The agent is not classifiable as to its carcinogenicity to humans.
CAS 14808-60-7 : IARC Group 1 : The agent is carcinogenic to humans.
CAS 1675-54-3 : IARC Group 3 : The agent is not classifiable as to its carcinogenicity 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**

DIGLYCIDYL ANILINE (CAS: 2095-06-9)

Fish toxicity : LC50 = 4.2 mg/l
Species : Cyprinus carpio
Duration of exposure : 96 h
OCDE Ligne directrice 203 (Poisson, essai de toxicité aiguë)

Crustacean toxicity : EC50 = 18 mg/l
Species : Daphnia magna
Duration of exposure : 48 h
OCDE Ligne directrice 202 (Daphnia sp., essai d'immobilisation immédiate)

Algae toxicity : ECr50 = 15 mg/l
Species : Pseudokirchnerella subcapitata
Duration of exposure : 72 h
OCDE Ligne directrice 201 (Algues, Essai d'inhibition de la croissance)

2,2'-[(1-METHYLETHYLIDENE)BIS(4,1-PHENYLENEOXYMETHYLENE)]BISOXIRANE (CAS: 1675-54-3)

Fish toxicity : LC50 = 1.3 mg/l
Duration of exposure : 96 h

Crustacean toxicity : EC50 = 2.1 mg/l
Species : Daphnia sp.

Duration of exposure : 48 h
OCDE Ligne directrice 202 (Daphnia sp., essai d'immobilisation immédiate)

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

GRAPHITE POWDER (CAS: 7782-42-5)
Fish toxicity :
LC50 > 1000 mg/l
Species : Danio rerio
Duration of exposure : 96 h
OCDE Ligne directrice 203 (Poisson, essai de toxicité aiguë)

Crustacean toxicity :
EC50 > 100 mg/l
Species : Daphnia magna
Duration of exposure : 48 h
OCDE Ligne directrice 202 (Daphnia sp., essai d'immobilisation immédiate)

Algae toxicity :
ECr50 > 100 mg/l
Species : Pseudokirchnerella subcapitata
Duration of exposure : 72 h
OCDE Ligne directrice 201 (Algues, Essai d'inhibition de la croissance)

12.1.2. Mixtures

No aquatic toxicity data available for the mixture.

12.2. Persistence and degradability

12.2.1. Substances

GRAPHITE POWDER (CAS: 7782-42-5)
Biodegradability : no degradability data is available, the substance is considered as not degrading quickly.

DIGLYCIDYL ANILINE (CAS: 2095-06-9)
Biodegradability : no degradability data is available, the substance is considered as not degrading quickly.

2,2'-[(1-METHYLETHYLIDENE)BIS(4,1-PHENYLENEOXYMETHYLENE)]BISOXIRANE (CAS: 1675-54-3)
Biodegradability : no degradability data is available, the substance is considered as not degrading quickly.

12.3. Bioaccumulative potential

12.3.1. Substances

2,2'-[(1-METHYLETHYLIDENE)BIS(4,1-PHENYLENEOXYMETHYLENE)]BISOXIRANE (CAS: 1675-54-3)
Octanol/water partition coefficient : log K_{ow} = 4

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, AwSV vom 18/04/2017, KBws) :

WGK 3 : Extremely 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 2019 - IMDG 2018 - ICAO/IATA 2020).

14.1. UN number

3082

14.2. UN proper shipping name

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

(2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane, diglycidyl aniline)

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	Stowage Handling	Segregation
	9	-	III	5 L	F-A, S-F	274 335 969	E1	Category A	-

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

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 <= 5 l / 5 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.

Marine pollutant (IMDG 3.1.2.9):(2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane)

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. 2020/217 (ATP 14)

- Container information:

Containers to be fitted with a tactile warning of danger (see EC Regulation No. 1272/2008, Annex II, Part 3).

- Particular provisions :

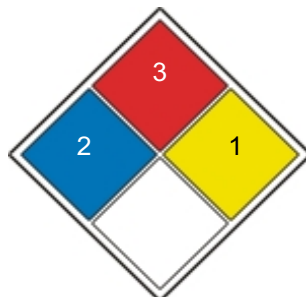
No data available.

- German regulations concerning the classification of hazards for water (WGK, AwSV vom 18/04/2017, KBws) :

WGK 3 : Extremely 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=2 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.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H341	Suspected of causing genetic defects .
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.

UFI : Unique Formula Identifier

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).

GHS07 : Exclamation mark

GHS08 : Health hazard

GHS09 : Environment

PBT: Persistent, bioaccumulable and toxic.

vPvB : Very persistent, very bioaccumulable.

SVHC : Substances of very high concern.