

GLISS'GRIP Wood Grip – PART A (Base)

1.0 IDENTIFICATION OF THE SUBSTANCE/ PREPARATION AND THE COMPANY/ UNDERTAKING

- 1.1 Product name** GLISS'GRIP Wood Grip – PART A (Base)
Product code K-GGB-G
- 1.2 Product Use description** BASE for « GLISS'GRIP Wood Grip PART B (HARDENER) »
- 1.3 Company** GLISSGRIP SAS
 50, avenue de la Bourdonnais
 75007 PARIS - FRANCE
 Tél. : +33 (0)1.30.25.84.90 - Fax : +33 (0)1.30.25.84.94
 E-mail : info@glissgrip.fr
- 1.4 Emergency telephone number** **Multilingual emergency number (24/7):**
 - Europe/America/Africa : +44 1235 239 (UK)
 - Middle East & Africa speaking Arabic : +44 1235 239 671 (UK)
 - Asia Pacific : +65 3158 1074 (Singapore)
 - China : +86 10 5100 3039 (Beijing)
 - France (ORFILA) : +33 (0)1 45 42 59 59

2.0 HAZARDS IDENTIFICATION

| | | |
|---|--|-------|
| Main Hazards | | SGH07 |
| | | SGH09 |
| Information about health and environmental hazards | H315+H319 Causes eyes and skin irritation. H317 May cause a skin sensitization. H411 Toxic to aquatic life with long lasting effects. EUH205 Contains epoxy constituents (Average molecular weight <700). May produce an allergic reaction. | |

3.0 COMPOSITION / INFORMATION ON INGREDIENTS

Chemical description: Product made of epoxy resins and non hazardous additives.

Information on hazardous ingredients:

| CAS no. EINECS no. | % | Description | CLP/GHS | Hazards Pictograms | Hazards categories |
|-----------------------|---------|--|---------------------------|-------------------------|--------------------|
| 25068-38-6 | 44 - 54 | BPA – Epichlorhydrin ; Epoxy resins WAMW <700 | H315+H319 H317 H411 | SGH07 SGH07 SGH09 | 2 1 1 |
| 28064-14-4 | 17 - 27 | BPF - Epichlorhydrin; Epoxy resins WAMW<700 | H315+H319 H317 H411 | SGH07 SGH07 SGH09 | 2 1 1 |
| 68081-84-5 | 8 – 18 | Aliphatic glycidyl ether | H315+H319 H317 H411 | SGH07 SGH07 SGH09 | 2 1 1 |

4.0 FIRST AID MEASURES

4.1 In case of inhalation:

No special measures needed. Move person into fresh air.

4.2 In case of contact with skin:

Take off immediately contaminated clothing. Wash the skin with water and soap, for at least 10 minutes.
If irritation persists: consult a doctor/ medical service.

4.3 In case of contact with eyes:

Immediately flush eye with running water, keeping eyelids open, for several minutes.
Seek medical advice in any case.

4.4 In case of ingestion:

Do not induce vomiting. Don't give anything by mouth. Call immediately a doctor. Turn always a person who is vomiting onto the side.

5.0 FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing media:

Foam, water spray or fog.

5.2 Unsuitable extinguishing media:

Do not use water jet.

5.3 Special hazards arising from the product, its combustion products or its resulting gases:

Not classified as flammable, but may burn.
Toxic gases may be produced in case of incomplete combustion: Carbon Monoxide (CO). Cool containers exposed to fire with water.

5.4 Special equipment for fire fighters:

Complete protective clothing. Appropriate breathing apparatus.

6.0 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions:

Wear safety equipment. Keep unprotected persons away.
Avoid contact with skin, eyes or clothing.

6.2 Environmental precautions:

Do not allow product to enter into drains, water courses and ground waters.

6.3 Methods for cleaning up and containment:

Collect using an absorbent material (sand, sawdust etc.).
Place in a suitable container for disposal according to local regulations.

7.0 HANDLING AND STORAGE

7.1 Precautions for safe handling:

Wear protective clothing, gloves and protection glasses.

7.2 Precautions against fire and explosions:

No special measures required.

7.3 Storage precautions:

Store product in securely closed containers, in a dry and well-ventilated area, between 15 and 25°C. Storage container materials to avoid: none.

8.0 EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Components with Occupational Exposure Limit Values:

The product does not contain a significant quantity of toxic substances, which are over exposure limits in the workplace.

8.2 Protection and hygiene measures:

Keep away from food and drink.

8.3 Individual protection measures:

| | |
|----------------------------|---|
| Respiratory protection : | Not required in case of a well-ventilated room. |
| Hand protection: | Wear protection gloves. |
| Eye protection: | Wear safety glasses or goggles. |
| Skin and body protection : | Wear protective clothing. |

GLISS'GRIP Wood Grip – PART A (Base)

9.0 PHYSICAL AND CHEMICAL PROPERTIES

| | |
|-----------------------------|---|
| Form | Liquid |
| Color | Translucent white |
| Odor | Light |
| Temperature features | Melting point: N.D. Boiling point: >200° C Flash point: >150° C Auto-ignition temperature : >300°C |
| Solubility in water | Partially soluble |
| Relative density | 1,13 Kg/m ³ (25°C) |

10.0 STABILITY AND REACTIVITY

10.1 Conditions to avoid:

Caustic products may react violently when exposed to temperature of about 200°C.

10.2 Materials to avoid:

Strong oxidants agents.
Caustic soda.

10.3 Hazardous reactions:

Stable under normal condition of use.
Hazardous reactions with amines, acids, bases and oxidant agents.

10.4 Hazardous decomposition products:

Stable under recommended storage conditions.

11.0 TOXICOLOGICAL INFORMATION

11.1 Acute toxicity:

Determining LD/LC 50 value for classification:

| | |
|-----------|---------------------------------------|
| - Oral: | Low acute toxicity, LD50 > 2000 mg/kg |
| - Dermal: | Low acute toxicity, LD50 > 2000 mg/kg |

11.2 Irritation :

| | |
|------------------|---------------------------|
| - Skin: | May be mildly irritating. |
| - Eyes: | May be mildly irritating. |
| - Sensitization: | Skin Sensitization. |

11.3 Complementary toxicological information :

| | |
|-----------------|-----------------|
| - Mutagenicity: | Not applicable. |
|-----------------|-----------------|

12.0 ECOLOGICAL INFORMATION

Ecotoxicity:

| | |
|-----------------------------------|--|
| - Toxicity to fish: | Toxic, 1 < CL/CE/CI 50 ≤ 10 mg/l |
| - Toxicity to algae: | Toxic, 1 < CL/CE/CI 50 ≤ 10 mg/l |
| - Acute Toxicity – invertebrates: | Toxic , 1 < CL/CE/CI 50 ≤ 10 mg/l |
| Mobility in water: | Runs into water. |
| Mobility in soil: | One or several product components may penetrate the soil and may cause contamination of ground waters. |
| Effluents: | Practically non-toxic, CL/CE/CI 50 > 100 mg/l |

Elimination information (persistence and degradability):

| | |
|-------------------|------------------------------|
| Biodegradability: | Not easily biodegradable. |
| Bioaccumulation: | Potentially bioaccumulative. |

13.0 DISPOSAL CONSIDERATIONS:

13.1 Product disposal:

Recycle if possible, if not, incinerate the product. Give the residues to a waste disposal company.

13.2 Containers disposal:

Evacuation according to the local requirements.

14 .0 TRANSPORT INFORMATION

Road transport ADR/RID and GGVS/GGVE:

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|----------------|------|
| Class ADR/RID: | 9 |
| Hazard number: | 90 |
| UN number: | 3082 |

GLISS'GRIP Wood Grip – PART A (Base)

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|----------------------|--|
| Code classification: | M6 |
| Packing Group: | III |
| Hazard Label: | 9 |
| Product description: | CLASSIFIED AS HAZARDOUS TO THE ENVIRONMENT, LIQUID, UNSPECIFIED, (EPOXY RESIN, GLYCIDYL ETHER ALIPHATIC) |

Sea transport IMDG/GGV sea:

| | |
|----------------------|--|
| Class: | 9 |
| UN number: | 3082 |
| Packing Group: | III |
| Hazard Label: | 9 |
| Product description: | CLASSIFIED AS HAZARDOUS TO THE ENVIRONMENT, LIQUID, UNSPECIFIED, (EPOXY RESIN, GLYCIDYL ETHER ALIPHATIC) |

Air transport ICAO-TI et IATA-DGR :

| | |
|----------------------|--|
| Class: | 9 |
| UN number: | 3082 |
| Packing Group: | III |
| Hazard label: | 9 |
| Product description: | CLASSIFIED AS HAZARDOUS TO THE ENVIRONMENT, LIQUID, UNSPECIFIED, (EPOXY RESIN, GLYCIDYL ETHER ALIPHATIC) |

15.0 REGULATORY INFORMATION

15.1 Labelling according to European directives:

Hazard symbols : SGH05 + SGH09 + SGH07

Labelling according to EC: EUH205.CONTAINS EPOXY CONSTITUENTS (AVERAGE MOLECULAR WEIGHT<700). MAY PRODUCE AN ALLERGIC REACTION.

15.2 Hazards statement:

| | |
|-----------|---|
| H315+H319 | Causes eyes and skin irritation. |
| H317 | May cause a skin sensitisation. |
| H410 | Very toxic to aquatic life with long lasting effects. |

15.3 Caution advice:

| | |
|---------------------|--|
| P262 | Do not get in eyes, on skin, or on clothing. |
| P264 | Wash hands thoroughly after handling. |
| P305+P338+P313+P351 | IF IN EYES, rinse cautiously with water for several minutes. Remove contact lenses if present. Continue rinsing. Consult a doctor. |
| P302+P352 | IF ON SKIN, wash immediately with plenty of water and soap. |
| P321 | DO NOT induce vomiting. |
| P332+P313 | In skin irritation occurs, get medical advice. |
| P280 | Wear protective gloves / protective clothing /eye protection /face protection. |
| P273+P201 | Avoid the release to the environment. Obtain special instructions before use. |
| P501 | Dispose of contents/containers in accordance to local or national regulations |

16.0 OTHER INFORMATION

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal and is not to be considered a warranty or quality specification.

The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

GLISS'GRIP Wood Grip – PART B (Hardener)

1.0 IDENTIFICATION OF THE SUBSTANCE/ PREPARATION AND THE COMPANY/ UNDERTAKING

- 1.1 Product name** **GLISS'GRIP Wood Grip – PART B (Hardener)**
- Product code** **K-GGB-G**
- 1.2 Product Use description** **HARDENER for « GLISS'GRIP Wood Grip PART A (BASE) »**
- 1.3 Company** **GLISSGRIP SAS**
 50, avenue de la Bourdonnais
 75007 PARIS - FRANCE
 Tél. : +33 (0)1.30.25.84.90 - Fax : +33 (0)1.30.25.84.94

 E-mail : info@glissgrip.fr
- 1.4 Emergency telephone number** **Multilingual emergency number (24/7):**
 - Europe/America/Africa : +44 1235 239 (UK)
 - Middle East & Africa speaking Arabic: +44 1235 239 671 (UK)
 - Asia Pacific : +65 3158 1074 (Singapore)
 - China : +86 10 5100 3039 (Beijing)
 - France (ORFILA) : +33 (0)1 45 42 59 59

2.0 HAZARDS IDENTIFICATION

| | | |
|---|--|-------|
| Main hazards | | SGH05 |
| | | SGH09 |
| Information about health and environmental hazards | H302+H312+h332 Harmful if swallowed, in contact with skin or if inhaled. H314+H318 Causes severe skin burns and serious eye damage. H317 May cause a skin sensitisation. H410 Very toxic to aquatic life with long lasting effects. | |

3.0 COMPOSITION / INFORMATION ON INGREDIENTS

Chemical description: cycloaliphatic polyamines. Hardener for epoxides.

Information on hazardous ingredients:

| CAS no. EiNECS no. | % | Description | CLP/GHS | Hazards Pictograms | Hazards categories |
|------------------------|---------|--------------------------------|---|----------------------------------|--------------------|
| 100-51-6 202-859-9 | 35 - 40 | Benzyl alcohol | H302+H312+H332 | SGH07 | 4 |
| 38294-64-3 | 25 - 30 | Modified cycloaliphatic amines | H302+H312+H332 H314+H318 H317 H410 | SGH07 SGH05 SGH07 SGH09 | 4 1 1 1 |
| 2855-13-2 220-666-8 | 25 - 30 | Isophorondiamine | H302+H312+H332 H314+H318 H317 H410 | SGH07 SGH05 SGH07 SGH09 | 4 1 1 1 |

4.0 FIRST AID MEASURES

4.1 In case of inhalation:

Bring a lot of fresh air. Keep at rest. Unconsciousness: lateral position. Call a physician.

4.2 In case of contact with skin:

Immediately remove contaminated clothing and keep it away. Wash with soap and water and rinse skin cautiously. Cover wound with sterile compress. No ointment. Medical attention is required. Keep injured person under observation, at least 24 hours (delayed effects).

4.3 In case of contact with eyes:

Immediately flush eye with plenty of running water, keeping eyelids open, for several minutes. Consult a doctor in any case.

4.4 In case of ingestion:

Do not induce vomiting. Don't give anything by mouth. Don't give anything by mouth. Call immediately a doctor. Turn always a person who is vomiting onto the side.

5.0 FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing media:

Foam, water spray or fog, dry powder, CO₂, sand or earth. For larger fire use water spray or alcohol resistant foam.

5.2 Unsuitable extinguishing media:

Do not use water jet.

5.3 Special hazards arising from the product, its combustion products or its resulting gases:

Toxic gases may be produced in case of fire or heating. Carbon Monoxide (CO), nitrogen oxide.

5.4 Special equipment for fire fighters:

Complete protective clothing. Appropriate breathing apparatus.

6.0 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions:

Wear safety equipment. Keep unprotected persons away. Avoid contact with skin, eyes or clothing.

6.2 Environmental precautions:

Do not allow product to enter into drains, water courses and ground waters.

6.3 Methods for cleaning up and containment:

Collect using an absorbent material (sand, sawdust etc.). Place in a suitable container for disposal according to local regulations.

7.0 HANDLING AND STORAGE

7.1 Precautions for safe handling:

Wear protective clothing, gloves and protection glasses. Wear also a respiratory protection with a filter. Ensure there is sufficient ventilation of the area.

7.2 Precautions against fire and explosions:

No special measures required.

7.3 Storage precautions:

Store product in securely closed containers, in a dry and well-ventilated area, between 15 and 25°C. Storage container materials to avoid: none.

8.0 EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 see 7

8.2 Components with Occupational Exposure Limit values:

The product does not contain a significant quantity of toxic substances, which are over exposure limits in the workplace.

8.3 Protection and hygiene measures:

Keep away from food, drink and animal feed.

8.4 Individual protection measures:

| | |
|----------------------------|---|
| Respiratory protection : | Not required in case of a well-ventilated room. |
| Hand protection: | Wear protection gloves. |
| Eye protection: | Wear safety glasses or goggles. |
| Skin and body protection : | Wear protective clothing. |

GLISS'GRIP Wood Grip – PART B (Hardener)

9.0 PHYSICAL AND CHEMICAL PROPERTIES

| | |
|----------------------------------|---|
| Form | Liquid |
| Color | Translucent white |
| Odor | Amine-like odor |
| Temperature features | Melting point: N.D. Boiling point: about 200° C Flash point: about 102° C Auto-ignition temperature : about 250°C Explosion hazard: this product is not explosive |
| Solubility in water | Partially soluble |
| pH | 12 |
| Vapor pressure (Pa) | < 50 (25°C) |
| Relative Density | About 1,02 Kg/m ³ (25°C) |
| Dynamic Viscosity (mPa.s) | 600 (25°C) |

10.0 STABILITY AND REACTIVITY

10.1 Conditions to avoid:

Avoid water vapor.

10.2 Materials to avoid:

Strong oxidants.
Strong acids.

10.3 Hazardous reactions:

Stable under normal condition of use.
Hygroscopic.

10.4 Hazardous decomposition products:

Stable under recommended storage conditions.

11.0 TOXICOLOGICAL INFORMATION

11.1 Acute toxicity:

Determining LD/LC 50 value for classification:

| | |
|--------------|--|
| - Oral: | Moderately toxic, 200 < LD50 ≤ 2000 mg/kg |
| - Inhalation | May be moderately toxic, 1 < LC50 ≤ 5 mg/l |
| - Dermal : | May be moderately toxic, 400 < LD50 ≤ 2000 mg/kg |

11.2 Irritation:

| | |
|------------------|--------------------------|
| - Skin: | Cause severe irritation. |
| - Eyes: | Corrosive. |
| - Sensitization: | Skin Sensitization. |

11.3 Complementary toxicological information:

According to the last regulation on classification of preparations, the product presents the following dangers:

- light toxic
- corrosive

Oral absorption of the product has a strong corrosive effect on the oral cavity, the pharynx and presents a danger of perforating the alimentary canal, including the stomach.

12.0 ECOLOGICAL INFORMATION

Ecotoxicity:

| | |
|-----------------------------------|--|
| - Toxicity to fish: | Light toxic, 10 < CL/CE/CI 50 ≤ 100 mg/l |
| - Toxicity to algae: | Light toxic, 10 < CL/CE/CI 50 ≤ 100 mg/l |
| - Acute Toxicity – invertebrates: | Light toxic, 10 < CL/CE/CI 50 ≤ 100 mg/l |
| Mobility in water: | Sinks into fresh water but floats on sea water. Partially soluble. A significant percentage remains after one day. |
| Mobility in soil: | One or several product components may penetrate the soil and may cause contamination of ground waters. |
| Effluents: | Practically non-toxic, CL/CE/CI 50 > 100 mg/l |

Elimination information (persistence and degradability):

| | |
|-------------------|--|
| Biodegradability: | Not easily biodegradable. |
| Bioaccumulation: | Not expected to significantly bioaccumulate. |

13.0 DISPOSAL CONSIDERATIONS:

13.1 Product disposal:

Send to an incineration facility for toxic waste after treatment according to local or national authorities.

13.2 Containers disposal (not cleaned up):

Evacuation according to the local requirements.

14 .0 TRANSPORT INFORMATION

Road transport ADR/RID and GGVV/GGVE:

| | |
|----------------------|--|
| Class ADR/RID: | 8 |
| Hazard number: | 80 |
| UN number: | 2735 |
| Code classification: | C7 |
| Packing Group: | III |
| Hazard Label: | 8 |
| Product description: | AMINES, LIQUID CORROSIVE, UNSPECIFIED (ISOPHORONDIAMINE, MODIFIED CYCLOALIPHATIC AMINES) |

Sea transport IMDG/GGV sea:

| | |
|----------------------|--|
| Class: | 8 |
| UN number: | 2735 |
| Packing Group: | III |
| Hazard Label: | 8 |
| Product description: | AMINES, LIQUID CORROSIVE, UNSPECIFIED (ISOPHORONDIAMINE, MODIFIED CYCLOALIPHATIC AMINES) |

Air transport ICAO-TI et IATA-DGR :

| | |
|----------------------|--|
| Class: | 8 |
| UN number: | 2735 |
| Packing Group: | III |
| Hazard label: | 8 |
| Product description: | AMINES, LIQUID CORROSIVE, UNSPECIFIED (ISOPHORONDIAMINE, MODIFIED CYCLOALIPHATIC AMINES) |

15.0 REGULATORY INFORMATION

15.1 Labelling according to European directives:

Hazard symbols: SGH05 + SGH09 + SGH07

Hazardous components for labelling: cycloaliphatic amine, Benzyl alcohol.

15.2 Hazards statement:

| | |
|----------------|---|
| H302+H312+H332 | Harmful if swallowed, harmful in contact with skin, harmful if inhaled. |
| H314 | Causes severe skin burns and eye damage. |
| H317 | May cause an allergic skin reaction. |
| H410 | Very toxic to aquatic life with long lasting effects. |

15.3 Caution advice:

| | |
|---------------------|---|
| P305+313 | IF IN EYES, rinse cautiously with water for several minutes. Consult a doctor. |
| P302+P352+P362 | IF ON SKIN, wash immediately with plenty of water and soap. Take off contaminated clothing and wash before reuse. |
| P309+P311 | IF EXPOSED or if you feel unwell: call a POISON CENTER or doctor/physician (show product label or this MSDS). |
| P301+P310+P330+P331 | IF SWALLOWED: immediately call a POISON CENTER or doctor. Rinse mouth. DO NOT induce vomiting. |
| P261 | Avoid breathing dust /fume/gas/mist/vapors/spray. |
| P280 | Wear protective gloves / protective clothing /eye protection /face protection. |
| P264 | Wash hands thoroughly after handling. |
| P270 | Do not eat, drink or smoke when using this product. |
| P420 | Store away from other materials. |
| P273+P501+P201 | Avoid release to the environment. Dispose of contents/container to... Obtain special instructions before use. |

16.0 OTHER INFORMATION

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal and is not to be considered a warranty or quality specification. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.