

SAFETY DATA SHEETS

START

Safety Data Sheet dated 22/5/2002

1. DESIGNATION OF PRODUCT AND COMPANY

Trade name: START

Product type and use: Cement based powder adhesive

Supplier: BISAZZA S.p.A - Via Milano, 56- 36041 Alte - Vicenza

Emergency telephone number of the company and/or of an authorised advisory centre:

BISAZZA S.p.A. - Tel. +39 0444 707511

2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components within the meaning of EEC directive 67/548 and corresponding classification:

25% - 50% white Portland cement, Cr(VI) < 2 ppm

CAS: 65997-15-1 EINECS: 266-043-4

Xi Irritant

R36/37/38 Irritating to eyes, respiratory system and skin.

3. HAZARDS IDENTIFICATION

If brought into contact with the eyes, the product causes irritation that may last for over 24h, if inhaled, it causes irritation to the airways, and if brought into contact with the skin it causes significant inflammation with erythema, scabs, and oedema

4. FIRST-AID MEASURES

Contact with skin: Immediately take off all contaminated clothing.

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.

Contact with eyes: Wash immediately and thoroughly with running water, keeping eyelids raised, for at least 10 minutes. Following this, protect the eyes with sterile gauze or a clean, dry, handkerchief. OBTAIN A MEDICAL EXAMINATION.

Swallowing: Wash the mouth thoroughly and drink plenty of water. In case of disease consult a physician immediately and present this safety-data sheet.

Inhalation: Ventilate the premises. The patient is to be removed immediately from the contaminated premises to rest in a well ventilated area. CALL A PHYSICIAN.

5. FIRE FIGHTING MEASURES

The product does not present a fire hazard

Extinguishers not to be used: none in particular.

6. MEASURES IN CASE OF ACCIDENTAL RELEASE

Measures for personal safety: Use a mask, gloves and protective clothing.

Environmental measures: Do not allow the product to contaminate drains and surface water. If the product has escaped into a water course, into the drainage system, or has contaminated the ground or vegetation, notify the competent authorities.

Spills: Rapidly recover the product. To do so, wear protective clothing. Scoop into containers and seal for disposal. After the product has been recovered, rinse the area and materials involved with water.

7. HANDLING AND STORAGE

Handling precautions: Avoid contact with skin and eyes and exposure to high dust concentration.

Incompatible materials: Keep away from water or from damp surroundings.

Storage conditions: Always keep the containers tightly closed.

Instructions as regards storage premises: adequately ventilated premises.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Precautionary measures: Give adequate ventilation to the premises where the product is stored and/or handled.

Respiratory protection: Required where ventilation is insufficient or exposure is prolonged. A dust mask should be worn if above exposure limits.

Protection for hands: Use protective gloves.

Eye protection: Safety goggles.

Protection for skin: Use clothing that provides comprehensive protection to the skin.

Exposure limit value of single components: none

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: powder
Colour: white
Odour: slight, typical of cement
pH(water dispersion, 10%): 13
Melting point: -
Boiling point: -
Flash point: -
Autoignition temperature: -
Explosion limits(by volum): -
Apparent density: 1,33 g/cm³
Solubility in water: partly soluble
Lipid solubility: insoluble

10. STABILITY AND REACTIVITY

Conditions to avoid: stable under normal conditions.

11. TOXICOLOGICAL INFORMATION

Route(s) of entry: Ingestion: Yes
Inhalation: Yes
Contact: No

Toxicological information related to the product:

No toxicological data are available at the moment on the product itself.
The concentration of each substance should be borne in mind in assessing the toxicological effects deriving from the preparation.

Corrosive/Irritating Properties:

Skin: The product can cause irritation by contact.

Eye: The product can cause irritation by contact

Sensitizing Properties: Frequent and prolonged skin contacts with cement paste may cause dermatitis.

Cancerogenic Effects: No effects are known.

Mutagenic Effects: No effects are known.

Teratogenic Effects: No effects are known.

12. ECOLOGICAL INFORMATION

Adopt sound working practices, so that the product is not released into the environment.

Do not pour leftover mix down drains or into surface water. Do not dump containers or dispose of them as normal refuse.

13. DISPOSAL CONSIDERATIONS

Recover if possible. In so doing, comply with the local and national regulations currently in force.

Disposal of hardened product : 17 01 01

14. TRANSPORT INFORMATION

UN Number: -

Rail/Road(RID/ADR): no dangerous good

Sea (IMO/IMDG): no dangerous good

MAR/POL 73/78,Annex III: No

Air (ICAO/IATA): no dangerous good

15. REGULATORY INFORMATION

Classification and Labelling according to EEC Directive 88/379:

Symbols: Xi Irritant

R Phrases: R36/37/38 Irritating to eyes, respiratory system and skin.

S Phrases: S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S46 If swallowed, seek medical advice immediately and show this container or label.

S24/25 Avoid contact with skin and eyes.

S2 Keep out of reach of children.

S37 Wear suitable gloves.

16. OTHER INFORMATION

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

To ensure correct use, the product must be stored, handled and utilized in accordance with current hygiene and safety standards

This MSDS cancels and replaces any preceding release.

UP

Safety Data Sheet dated 01/10/2003, edition 2

1. DESIGNATION OF PRODUCT AND COMPANY

Trade name: UP

Product type and use: Water dispersion of synthetic polymers.

Supplier: BISAZZA S.p.A. - Viale Milano, 56 - 36041 Alte - Vicenza

Emergency telephone number of the company and/or of an authorised advisory centre:
BISAZZA S.p.A. - Tel. +39 0444 707511

2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components within the meaning of EEC directive 67/548 and corresponding classification:
None

3. HAZARDS IDENTIFICATION

No specific hazards are encountered under normal product use.

4. FIRST-AID MEASURES

Contact with skin: Wash with plenty of water and soap.

Contact with eyes: Wash immediately with water for at least 10 minutes.

Swallowing: Wash the mouth thoroughly and drink plenty of water. In case of disease consult a physician immediately and present this safety-data sheet.
A suspension of activated charcoal in water, or liquid petrolatum may be administered.

Inhalation: Ventilate the premises.

5. FIRE FIGHTING MEASURES

The product does not present a fire hazard

Extinguishers not to be used: None in particular

Risks arising from combustion: Avoid inhaling the fumes

Protective equipment: Use protection for the airways

6. MEASURES IN CASE OF ACCIDENTAL RELEASE

Measures for personal safety: Use gloves and protective clothing.

Environmental measures: Do not allow the product to contaminate drains and surface water.

Spills: Limit leakages with earth or sand.

Cleaning methods: If the product is in a liquid form, stop it from entering the drainage system.
Recover the product for re-use if possible, or for elimination. The product might, where appropriate, be absorbed by inert material.
After the product has been recovered, rinse the area and materials involved with water.

7. HANDLING AND STORAGE

Handling precautions: Avoid contact with skin and eyes

Incompatible materials: None in particular

Storage conditions: Store above 5°C

Instructions as regards storage premises: Adequately ventilated premises

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Precautionary measures:

Respiratory protection: Not needed for normal use

Protection for hands: Not needed for normal use

Eye protection: Not needed for normal use

Protection for skin: No special precaution must be adopted for normal use

All the individual protection devices must be consistent to CE relevant standards (as EN 374 for gloves and EN 166 for goggles), maintained efficient and stored in a appropriate way. The life of the protection devices against the chemical agents depends on various factors (the way they are used, climatic factors and storage conditions), that can remarkably reduce also the life foreseen by CE standards. The consultation of the supplier of the protection devices is always recommended. The education of the worker to the use of the equipment devices is mandatory.

Exposure limit value of single components: None

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: liquid
 Colour: white
 Odour: typical
 pH: 5 - 7
 Boiling point: 100 °C
 Flash point: -
 Autoignition temperature: -
 Explosion limits(by volume): -
 Relative density: 1.05 g/cm³ (23°C)
 Solubility in water: dispersible
 Lipid solubility: insoluble
 Viscosity: 20 mPa.s (23°C)

10. STABILITY AND REACTIVITY

Conditions to avoid: stable under normal conditions.

11. TOXICOLOGICAL INFORMATION

Route(s) of entry: Ingestion: Yes
 Inhalation: No
 Contact: No

Toxicological information related to the product:

No toxicological data are available at the moment on the product itself.
 The concentration of each substance should be borne in mind in assessing the toxological effects deriving from the preparation.

Acute Toxicity: no effects are known

Chronic Toxicity: no effects are known

Corrosive/Irritating Properties: Eye: The product can cause a temporary irritation by contact

Sensitizing Properties: No effects are known

Cancerogenic Effects:	No effects are known
Mutagenic Effects:	No effects are known
Teratogenic Effects:	No effects are known

12. ECOLOGICAL INFORMATION

Although no experimental data are available, the product is expected to be only partly biodegradable.
Although no experimental data are available, the product cannot be considered safe to aquatic life. It should not be allowed to enter surface waters and groundwater.
Adopt sound working practices, so that the product is not released into the environment.
Do not pour leftover mix down drains or into surface water. Do not dump containers or dispose of them as normal refuse.

13. DISPOSAL CONSIDERATIONS

Recover if possible. In so doing, comply with the local and national regulations currently in force.
Disposal of not hardened product (EC waste code): 08 04 16
The suggested European waste code is just based on the composition of the product.
According to the specific process or application field a different waste code maybe necessary.

14. TRANSPORT INFORMATION

UN Number:	-
Rail/Road(RID/ADR):	no dangerous good
Sea (IMO/IMDG):	no dangerous good
MAR/POL 73/78,Annex III:	No
Air (ICAO/IATA):	no dangerous good

15. REGULATORY INFORMATION

Classification and Labelling according to EEC Directive 88/379:
The preparation should not be considered as dangerous according to 88/379/EEC Directive

16. OTHER INFORMATION

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.
To ensure correct use, the product must be stored, handled and utilized in accordance with current hygiene and safety standards
This MSDS cancels and replaces any preceding release.

GO1

Safety Data Sheet 22/05/2002

1. DESIGNATION OF PRODUCT AND COMPANY

Trade name: GO 1

Product type and use: Cement based powder adhesive

Supplier: BISAZZA S.p.A. - Via Milano, 56 - 36041 Alte - Vicenza

Emergency telephone number of the company and/or of an authorised advisory centre:

BISAZZA S.p.A. - Tel. +39 0444 707511

2. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous components within the meaning of EEC directive 67/548 and corresponding classification:

5% - 9.99% white Portland cement, Cr(VI) < 2 ppm

CAS: 65997-15-1 EINECS: 266-043-4

Xi Irritant

R36/37/38 Irritating to eyes, respiratory system and skin.

3. HAZARDS IDENTIFICATION

This preparation contains cement. Contact between cement and body fluids (e.g. sweat and eye fluids) may cause irritation or burns.

4. FIRST-AID MEASURES

Contact with skin: Wash with plenty of water and soap.

Contact with eyes: Wash immediately and thoroughly with running water, keeping eyelids raised, for at least 10 minutes. Following this, protect the eyes with sterile gauze or a clean, dry, handkerchief. OBTAIN A MEDICAL EXAMINATION.

Swallowing: Wash the mouth thoroughly and drink plenty of water. In case of disease consult a physician immediately and present this safety-data sheet.

Inhalation: Ventilate the premises. The patient is to be removed immediately from the premises contaminated and made to rest in a well ventilated area. Should the patient feel unwell, consult a physician.

5. FIRE FIGHTING MEASURES

The product does not present a fire hazard

Extinguishers not to be used: none in particular.

6. MEASURES IN CASE OF ACCIDENTAL RELEASE

Measures for personal safety: Avoid contact with skin and eyes

Environmental measures: None in particular

Spills: Scoop into containers and seal for disposal.
After the product has been recovered, rinse the area and materials involved with water.

7. HANDLING AND STORAGE

Handling precautions: Avoid contact with skin and eyes and exposure to high dust concentration.

Incompatible materials: Keep away from water or from damp surroundings.

Storage conditions: Always keep the containers tightly closed.

Instructions as regards storage premises: Adequately ventilated premises.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limit values(TLV-TWA): (powder)10 mg/m³

Precautionary measures: Give adequate ventilation to the premises where the product is stored and/or handled.

Respiratory protection: A dust mask should be worn if above exposure limits.

Protection for hands: Not needed for normal use.

Eye protection: Not needed for normal use.

Protection for skin: No special precaution must be adopted for normal use.

Exposure limit value of single components: None

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: powder
Colour: grey or white
Odour: slight, typical of cement
pH(water dispersion,10%): 11-12
Melting point: -
Boiling point: -
Flash point: -
Autoignition temperature: -
Explosion limits(by volume): -
Apparent density: 1.3 g/cm³
Solubility in water: partly soluble
Lipid solubility: insoluble

10. STABILITY AND REACTIVITY

Conditions to avoid: Stable under normal conditions.

11. TOXICOLOGICAL INFORMATION

Route(s) of entry: Ingestion: Yes
Inhalation: Yes
Contact: No

Toxicological information related to the product:

No toxicological data are available at the moment on the product itself.
The concentration of each substance should be borne in mind in assessing the toxicological effects deriving from the preparation.

Corrosive/Irritating Properties:

Skin: The product can cause irritation by contact.

Eye: The product can cause irritation by contact

Sensitizing Properties: Frequent and prolonged skin contacts with cement paste may cause dermatitis.

Cancerogenic Effects: No effects are known.

Mutagenic Effects: No effects are known.

Teratogenic Effects: No effects are known.

Additional Information: Contains cement. Cement gives a strong alkaline reaction with water and body fluids (e.g. sweat and eye fluids), therefore the contact with skin and eyes should be carefully avoided.

12. ECOLOGICAL INFORMATION

Adopt sound working practices, so that the product is not released into the environment.

Do not pour leftover mix down drains or into surface water. Do not dump containers or dispose of them as normal refuse.

13. DISPOSAL CONSIDERATIONS

Recover if possible. In so doing, comply with the local and national regulations currently in force.

Disposal of hardened product : 170101

14. TRANSPORT INFORMATION

UN Number: -

Rail/Road(RID/ADR): no dangerous good

Sea (IMO/IMDG): no dangerous good

MAR/POL 73/78, Annex III: No

Air (ICAO/IATA): no dangerous good

15. REGULATORY INFORMATION

Classification and Labelling according to EEC Directive 88/379: the preparation should not be considered as dangerous according to 88/379/EEC Directive.

16. OTHER INFORMATION

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

To ensure correct use, the product must be stored, handled and utilized in accordance with current hygiene and safety standards

This MSDS cancels and replaces any preceding release.

GO2

Safety Data Sheet dated 22/5/2002

1. DESIGNATION OF PRODUCT AND COMPANY

Trade name: GO2

Water dispersion of synthetic polymers.

Supplier: BISAZZA S.p.A. - Viale Milano, 56 - 36041 Alte di Montecchio (VI)

Emergency telephone number of the company and/or of an authorised advisory centre:

BISAZZA S.p.A. - Tel. +39 0444 707511

2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components within the meaning of EEC directive 67/548 and corresponding classification:

None

3. HAZARDS IDENTIFICATION

No specific hazards are encountered under normal product use.

4. FIRST-AID MEASURES

Contact with skin: Wash with plenty of water and soap.

Contact with eyes: Wash immediately with water for at least 10 minutes.

Swallowing: Wash the mouth thoroughly and drink plenty of water. In case of disease consult a physician immediately and present this safety-data sheet.
A suspension of activated charcoal in water, or liquid petrolatum may be administered.

Inhalation: Ventilate the premises.

5. FIRE FIGHTING MEASURES

The product does not present a fire hazard.

Extinguishers not to be used: None in particular.

Risks arising from combustion: Avoid inhaling the fumes.

Protective equipment: Use protection for the airways.

6. MEASURES IN CASE OF ACCIDENTAL RELEASE

Measures for personal safety: Use gloves and protective clothing.

Environmental measures: Do not allow the product to contaminate drains and surface water.

Spills: Limit leakages with earth or sand.

Cleaning methods: If the product is in a liquid form, stop it from entering the drainage system.

Recover the product for re-use if possible, or for elimination. The product might, where appropriate, be absorbed by inert material.

After the product has been recovered, rinse the area and materials involved with water.

7. HANDLING AND STORAGE

Handling precautions: Avoid contact with skin and eyes.

Incompatible materials: None in particular.

Storage conditions: Store above 5°C.

Instructions as regards storage premises: Adequately ventilated premises.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Precautionary measures:

Respiratory protection: Not needed for normal use.

Protection for hands: Not needed for normal use.

Eye protection: Not needed for normal use.

Protection for skin: No special precaution must be adopted for normal use.

Exposure limit value of single components: None

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: liquid
Colour: white
Odour: typical
pH: 10
Melting point: -
Boiling point: 100 °C
Flash point: -
Autoignition temperature: -
Explosion limits(by volume): -
Relative density: 1.01 g/cm³ (23°C)
Solubility in water: dispersible
Lipid solubility: insoluble
Viscosity: 100 mPa.s (23°C)

10. STABILITY AND REACTIVITY

Conditions to avoid: Stable under normal conditions.

11. TOXICOLOGICAL INFORMATION

Route(s) of entry: Ingestion: Yes
Inhalation: No
Contact: Yes

Toxicological information related to the product:

No toxicological data are available at the moment on the product itself.

The concentration of each substance should be borne in mind in assessing the toxicological effects deriving from the preparation.

Corrosive/Irritating Properties:

Eye: The product can cause a temporary irritation by contact.

Sensitizing Properties: No effects are known.

Cancerogenic Effects: No effects are known.

Mutagenic Effects: No effects are known.

Teratogenic Effects: No effects are known.

12. ECOLOGICAL INFORMATION

Although no experimental data are available, the product is expected to be only partly biodegradable.

Although no experimental data are available, the product cannot be considered safe to aquatic life. It should not be allowed to enter surface waters and groundwater.

Adopt sound working practices, so that the product is not released into the environment.

Do not pour leftover mix down drains or into surface water. Do not dump containers or dispose of them as normal refuse.

13. DISPOSAL CONSIDERATIONS

Recover if possible. In so doing, comply with the local and national regulations currently in force.

14. TRANSPORT INFORMATION

UN Number: -

Rail/Road(RID/ADR): no dangerous good

Sea (IMO/IMDG): no dangerous good

MAR/POL 73/78,Annex III: No

Air (ICAO/IATA): no dangerous good

15. REGULATORY INFORMATION

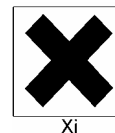
Classification and Labelling according to EEC Directive 88/379: the preparation should not be considered as dangerous according to 88/379/EEC Directive.

16. OTHER INFORMATION

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

To ensure correct use, the product must be stored, handled and utilized in accordance with current hygiene and safety standards

This MSDS cancels and replaces any preceding release.

FILLgel –A**Safety Data Sheet of 22/12/2006****1. IDENTIFICATION OF PREPARATION AND SUPPLIER**

Name of product: FILLGEL part A

Product type and use: epoxy-resin-based acid-resistant grout.

Supplier: BISAZZA S.p.A.- Via Milano, 56 - 36041 Montecchio (VI)

Telephone number for urgent requirements: company and/or official advisory body:

BISAZZA S.p.A. - Tel: 044-4707511

Poisons Centre - Niguarda Hospital - Milan - Tel. (+39) 0266101029

2. INFORMATION ON INGREDIENTS

Ingredients hazardous for health as defined by Directive 67/548/EEC and relative classification:

15% - 20% reaction product: bisphenol-A-epichlorohydrin, contains epoxy resins (average molecular weight ≤ 700)

N.67/548/CEE: 603-074-00-8 CAS: 25068-38-6 EINECS: 500-033-5 N Xi R36/38 R43 R51/53

1% - 3% Polypropyleneglycol-diglycidyl ether

CAS: 9072-62-2

Xi R36/38 R43

3% - 5% Reaction product Bisphenol-F-Epichlorohydrin

CAS: 9003-36-5 Xi N R36/38 R43 R51/53

1% - 3% oxirane, mono [(C12-14 -alkyloxy)methyl] derivatives;

N.67/548/CEE: 603-103-00-4 CAS: 68609-97-2 EINECS: 271-846-8 Xi R38 R43

3. HAZARDS IDENTIFICATION

If brought into contact with the eyes, the product induces irritative effects that can persist for more than 24 hours, or if brought into contact with the skin, irritation and redness.

The product can cause sensitization by skin contact.

Harmful to aquatic organisms; may cause long-term adverse effects in the aquatic environment.

4. FIRST AID MEASURES

Contact with the skin: remove contaminated clothing immediately.

Areas of the body that have come into contact with the product, even suspected contact, should be washed immediately with plenty of running water, and soap if need be.

Contact with the eyes: wash immediately and copiously with running water, keeping the eyelids open, for at least 10 minutes; thereafter, protect the eyes with sterile gauze or a clean handkerchief, keeping dry. SEEK MEDICAL ATTENTION.

Ingestion: a suspension of activated carbon in water or medicinal mineral (Vaseline) oil can be administered.

Do not under any circumstances induce vomiting.

SEEK MEDICAL ATTENTION IMMEDIATELY, showing the safety data sheet.

Inhalation: ventilate the area. Remove the casualty immediately from the contaminated area and ensure that rest is taken in well-ventilated surroundings. If symptoms persist, seek medical attention.

5. FIRE FIGHTING MEASURES

Recommended extinguishing media: Water, CO₂, Foam, Dry Chemicals, depending on the materials involved in the fire.

Prohibited extinguishing media: none.

Fire/explosion hazards:

fumes released during a fire may contain the ingredients of the product as found, or unidentified toxic and/or irritant compounds.

When exposed to heat, or in the event of fire, the product can give off carbon monoxide and dioxides or vapours that are potentially hazardous to health.

Avoid breathing in fumes.

Protection media: use PPEs to protect the airways.

6. ACCIDENTAL RELEASE MEASURES

Personal precautionary measures: wear gloves and protective clothing.

Environmental precautions: do not pollute water courses or drains. If the product enters a water course or sewage system, or contaminates the soil or vegetation, inform the competent authorities.

Spillages: contain the spillage with sand or earth. Put on protective apparel and collect the spilt product with all possible speed. Collect the product for reuse, if possible, or for disposal. Absorb spillage with inert material if necessary.

7. HANDLING AND STORAGE

Handling precautions: avoid contact and inhalation of vapours. See also heading 8 below. Do not eat or drink when working with the product.

Storage conditions: keep away from sources of heat.

Storage location: keep recipients securely closed in a cool and well-ventilated place, away from sources of heat.

8. PERSONAL PROTECTION / EXPOSURE CONTROL

Precautionary measures: ventilate the rooms in which the product is stored and/or handled.

Respiratory protection: not required during normal use.

Protective gloves: rubber.

Recommended type: LLPDE (0.06 mm), nitrile (0.4 mm) or neoprene (0.5 mm).
Latex gloves are not recommended

Eye protection: safety glasses.

Skin protection: clothing that protects the skin completely.

All items of personal protective equipment must be in conformity with pertinent EC standards (EN 374 for gloves, EN 166 for eyewear), maintained in an efficient state and properly looked after.

The useful life of personal protective equipment for chemicals will depend on various factors (type of use, climatic conditions, how and where kept), which can also significantly reduce the permissible service durability as specified by EC standards.

Always consult the supplier of the personal protective equipment. Instruct workers in the use of PPE items provided.

Exposure limits for constituent substances: none

9. PHYSICAL & CHEMICAL PROPERTIES

Appearance: thixotropic paste

Colour: various

Odour: characteristic

pH: -

Boiling point: -

Flashpoint: > 61 °C

Flammability of solids/gases: -

Explosive properties: none

Combustion properties: none

Vapour pressure: -

Relative density : 1.75 ± 0.1

Coefficient of n-octanol/water distribution: -

Vapour density: -

Solubility in water: insoluble

Solubility in fat: -

10. STABILITY & REACTIVITY

Conditions to be avoided: avoid proximity to sources of heat.

Substances to be avoided: none in particular.

Decomposition hazards: the product remains stable under normal conditions of use and storage.

When exposed to heat, or in the event of fire, the product can give off carbon monoxide and dioxides or vapours that are potentially hazardous to health.

11. TOXICOLOGICAL INFORMATION

The concentration of single constituent substances must be taken into account when evaluating the toxicological effects deriving from exposure to the product.

The following items of toxicological information relate to the main substances included in the product: the product contains no substances of particular toxicological importance.

The epoxy resins contained in this product are only mildly irritant. Nonetheless, all epoxy resins can cause sensitization of the skin, varying from individual to individual.

It is possible that allergic dermatitis will not affect a sensitized person initially, but then appear after several days or weeks of frequent and prolonged contact.

Accordingly, whilst these resins are no more than mildly irritant, contact with the skin should be carefully avoided. Once sensitization has occurred, exposure even to minimal quantities of material can cause local oedema and erythema.

12. ECOLOGICAL INFORMATION

List of environmentally hazardous substances contained in the product, and relative classification:

15% - 20% reaction product: bisphenol-A-epichlorohydrin

N.67/548/CEE: 603-074-00-8 CAS: 25068-38-6 EINECS: 500-033-5

R51/53 Toxic to aquatic organisms; may cause long-term adverse effects in the aquatic environment.

3% - 5% Bisphenol-F-Epoxy resins

CAS: 9003-36-5

R51/53 Toxic to aquatic organisms; may cause long-term adverse effects in the aquatic environment.

Utilize the product in accordance with good working practices, avoiding release into the environment.

13. DISPOSAL CONSIDERATIONS

Recover spillages if possible. Observe local and national statutory regulations.

Disposal of hardened product (CER code): 08 04 10

Disposal of non-hardened product (CER code): 08 04 09

14. TRANSPORT INFORMATION

UN number: -

RID/ADR: classified non-hazardous

MO/IMDG: classified non-hazardous

MAR/POL 73/78, Annex III: no

Air freight (ICAO/IATA): classified non-hazardous

15. REGULATORY INFORMATION

Directive 99/45/EC (Classification and Labelling):

Symbols: Xi Irritant

R phrases: R36/38 Irritant to eyes and skin.

R43 May cause sensitization by skin contact.

R52/53 Harmful to aquatic organisms; may cause long-term adverse effects in the aquatic environment.

S phrases: S24 Avoid contact with the skin.

S26 In the event of contact with eyes, rinse immediately with plenty of water and seek medical attention.

S36/37 Use suitable protective clothing and gloves.

S56 Dispose of this material and its containers at a hazardous or special waste collection point

S61 Avoid release to the environment. Refer to special instructions/Safety data sheets.

Special provisions: contains epoxy resins. Read the information provided by the manufacturer.
Contains: reaction product: bisphenol-A-epichlorohydrin
bisphenol-F-epoxy resins
oxirane, mono [(C12-14 -alkyloxy)methyl] derivatives
polypropyleneglycol-diglycidyl ether

16. OTHER INFORMATION

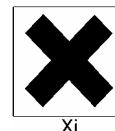
Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre,
Commission of the European Communities
SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van
Nostrand Reinold
ACGIH - Threshold Limit Values
Safety data sheets provided by raw materials suppliers.

Information given in the MSDS is the most recent in our possession at the date of release. Items of information refer solely to the product indicated and do not constitute any guarantee of particular qualities. For correct use the product must be stored, handled, and used in accordance with statutory hygiene and safety regulations.

The user must make certain that the information is suitable and complete, in relation to the specific use for which the product is intended.

This data sheet cancels and replaces all previous editions.

FILLgel –B**Safety Data Sheet of 22/12/2006****1. IDENTIFICATION OF PREPARATION AND SUPPLIER**

Name of product: FILLGEL part B

Product type and use: hardener for epoxy compounds

Supplier: BISAZZA S.p.A.- Via Milano, 56 - 36041 Montecchio (VI)

Telephone number for urgent requirements: company and/or official advisory body:

BISAZZA S.p.A. - Tel: 044-4707511

Poisons Centre - Niguarda Hospital - Milan - Tel. (+39) 0266101029

2. INFORMATION ON INGREDIENTS

Ingredients hazardous for health as defined by Directive 67/548/EEC and relative classification:

7% - 10% Benzyl alcohol

N.67/548/CEE: 603-057-00-5 CAS: 100-51-6 EINECS: 202-859-9 Xn R20/22

7% - 10% 3-aminomethyl-3,5,5-trimethylcyclohexylamine

N.67/548/CEE: 612-067-00-9 CAS: 2855-13-2 EINECS: 220-666-8 C R21/22 R34 R43 R52/53

1% - 3% Amidoamine resin

N R51/53

1% - 3% 3-Azapentane-1,5-diamine

N.67/548/CEE: 612-058-00-X CAS: 111-40-0 EINECS: 203-865-4 C R21/22 R34 R43

1% - 3% 3,6-diazaoctane-1,8-diamine

N.67/548/CEE: 612-059-00-5 CAS: 112-24-3 EINECS: 203-950-6 C R21 R34 R43 R52/53

1% - 3% 4,4'-isopropylidenediphenol

N.67/548/CEE: 604-030-00-0 CAS: 80-05-7 EINECS: 201-245-8 Xn R37 R41 R43 R62

3. HAZARDS IDENTIFICATION

If brought into contact with the eyes, the product can cause serious eye damage such as corneal haze or lesion of the iris, and if brought into contact with the skin, marked inflammation, erythema, eschar or oedema.

The product can cause sensitization by skin contact.

Harmful to aquatic organisms; may cause long-term adverse effects in the aquatic environment.

4. FIRST AID MEASURES

Contact with the skin: remove contaminated clothing immediately.

Areas of the body that have come into contact with the product, even suspected contact, should be washed immediately with plenty of running water, and soap if need be.

Contact with the eyes: wash immediately and copiously with running water, keeping the eyelids open, for at least 10 minutes; thereafter, protect the eyes with sterile gauze or a clean handkerchief, keeping dry. SEEK MEDICAL ATTENTION. Do not use eye drops or ointments of any kind before seeing or speaking to an oculist.

Ingestion: Do not under any circumstances induce vomiting.

SEEK MEDICAL ATTENTION. A suspension of activated carbon in water or medicinal mineral (Vaseline) oil can be administered.

Inhalation: ventilate the area. Remove the casualty immediately from the contaminated area and ensure that rest is taken in well-ventilated surroundings. If symptoms persist, seek medical attention.

5. FIRE FIGHTING MEASURES

Recommended extinguishing media: Water, CO₂, Foam, Dry Chemicals, depending on the materials involved in the fire.

Prohibited extinguishing media: none.

Fire/explosion hazards: fumes released during a fire may contain the ingredients of the product as found, or unidentified toxic and/or irritant compounds. Fumes may contain oxides of nitrogen. Avoid breathing in fumes.

Protection media: use PPEs to protect the airways.

6. ACCIDENTAL RELEASE MEASURES

Personal precautionary measures: wear mask, gloves and protective clothing.

Environmental precautions: do not pollute water courses or drains. If the product enters a water course or sewage system, or contaminates the soil or vegetation, inform the competent authorities.

Spillages: contain the spillage with sand or earth. Put on protective apparel and collect the spilt product with all possible speed. Collect the product for reuse, if possible, or for disposal. Absorb spillage with inert material if necessary.

7. HANDLING AND STORAGE

Handling precautions: avoid contact and inhalation of vapours. See also heading 8 below. Do not eat or drink when working with the product.

Incompatible materials: none in particular.

Storage conditions: keep containers securely closed at all times. Keep away from sources of heat

Storage location: select a cool and well-ventilated place.

8. PERSONAL PROTECTION / EXPOSURE CONTROL

Precautionary measures: ventilate the rooms in which the product is stored and/or handled.

Respiratory protection: not required during normal use.

Protective gloves: rubber.
Recommended type: LLPDE (0.06 mm), nitrile (0.4 mm) or neoprene (0.5 mm). Latex gloves are not recommended

Eye protection: avoid contact with eyes.

Skin protection: wear clothing that protects the skin completely.

All items of personal protective equipment must be in conformity with pertinent EC standards (EN 374 for gloves, EN 166 for eyewear), maintained in an efficient state and properly looked after.

The useful life of personal protective equipment for chemicals will depend on various factors (type of use, climatic conditions, how and where kept), which can also significantly reduce the permissible service durability as specified by EC standards.

Always consult the supplier of the personal protective equipment. Instruct workers in the use of PPE items provided.

Exposure limits for constituent substances:

benzyl alcohol TLV TWA: 5-10 ppm TLV STEL: 5-10 ppm

3-azapentane-1,5-diamine TLV TWA: 1 ppm - 4.22 mg/m³ Skin TLV STEL: Skin

9. PHYSICAL & CHEMICAL PROPERTIES

Appearance: thixotropic paste
 Colour: beige
 Odour: slightly ammoniacal
 pH: -
 Boiling point: -
 Flashpoint: > 61 °C
 Flammability of solids/gases: -
 Explosive properties: none
 Combustion properties: none
 Vapour pressure: -
 Relative density : 1.75 ± 0.1
 Coefficient of n-octanol/water distribution: -
 Vapour density: -
 Solubility in water: partly soluble, alkaline reaction

Solubility in fat: -

10. STABILITY & REACTIVITY

Conditions to be avoided: stable under normal conditions.
 Can give off inflammable gases in contact with elemental metals (alkalis and alkaline earths) or strong reducing agents.
 Can generate toxic gases in contact with oxidizing mineral acids, halogenated organic substances, organic peroxides and hydroperoxides, and strong oxidizing agents.
 Can ignite in contact with strong oxidizing agents.
 When exposed to heat, or in the event of fire, the product can give off carbon and nitrogen monoxides and vapours that are potentially hazardous to health.

11. TOXICOLOGICAL INFORMATION

Penetration routes: Ingestion: yes
 Inhalation: yes
 Contact: yes

Toxicological information relating to preparation: benzyl alcohol
 LD50 (RABBIT) SKIN SINGLE DOSE: 2000 MG/KG
 4,4'-isopropylidenediphenol
 LD50 (RAT) ORAL: 4040 MG/KG
 LD50 (RABBIT) SKIN: 3000 MG/KG

When evaluating toxicity of the preparation, the concentration of the single components indicated in heading 2 must be taken properly into account.

Corrosiveness/ skin: contact can cause irritation.
 Irritant power: eye: direct contact can cause irritation.
 Sensitization potential: repeated contact can cause sensitization.
 Carcinogenesis: no effect observed
 Mutagenesis: no effect observed.
 Teratogenesis: no effect observed.
 Other information:
 susceptibility to sensitization of the skin varies from individual to individual.
 It is possible that allergic dermatitis will not affect a sensitized person initially, but then appear after several days or weeks of frequent and prolonged contact.
 Accordingly, contact with the skin should be carefully avoided. Once sensitization has occurred, exposure even to minimal quantities of material can cause local oedema and erythema.

12. ECOLOGICAL INFORMATION

Adopt all necessary measures to prevent the product from being released into the environment. Do not dispose of waste product in drains or surface water. Do not release containers into the environment.

List of environmentally hazardous substances contained in the product, and relative classification:
 7% - 10% 3-aminomethyl-3,5,5-trimethylcyclohexylamine
 N.67/548/CEE: 612-067-00-9 CAS: 2855-13-2 EINECS: 220-666-8
 R52/53 Harmful to aquatic organisms; may cause long-term adverse effects in the aquatic environment.
 1% - 3% Amidoamine resin
 R51/53 Toxic to aquatic organisms; may cause long-term adverse effects in the aquatic environment.
 1% - 3% 3,6-diazaoctane-1,8-diamine
 N.67/548/CEE: 612-059-00-5 CAS: 112-24-3 EINECS: 203-950-6
 R52/53 Harmful to aquatic organisms; may cause long-term adverse effects in the aquatic environment.

13. DISPOSAL CONSIDERATIONS

Recover spillages if possible. Observe local and national statutory regulations.
 Disposal of hardened product (CER code): 08 04 10
 Disposal of non-hardened product (CER code): 08 04 09

14. TRANSPORT INFORMATION

UN number: -
RID/ADR: classified non-hazardous
MO/IMDG: classified non-hazardous
MAR/POL 73/78, Annex III: no
Air freight (ICAO/IATA): classified non-hazardous

15. REGULATORY INFORMATION

Directive 99/45/EC (Classification and Labelling):

Symbols: Xi Irritant

R phrases: R36/38 Irritant to eyes and skin.
R41 Risk of serious eye damage
R43 May cause sensitization by skin contact.
R52/53 Harmful to aquatic organisms; may cause long-term adverse effects in the aquatic environment.

S phrases: S24 Avoid contact with the skin.
S26 In the event of contact with eyes, rinse immediately with plenty of water and seek medical attention.
S36/37/39 Use protective clothing and suitable gloves, and protect the eyes/face.
S56 Dispose of this material and its containers at a hazardous or special waste collection point.
S61 Avoid release to the environment. Refer to special instructions/Safety data sheets.

Contains: 4,4'-isopropylidenediphenol
3,6-diazaoctane-1,8-diamine
3-azapentane-1,5-diamine
3-aminomethyl-3,5,5-trimethylcyclohexylamine

16. OTHER INFORMATION

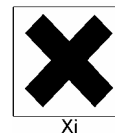
Information given in the MSDS is the most recent in our possession at the date of release, and does not constitute any guarantee of particular qualities.

For correct use the product must be stored, handled, and used in accordance with statutory hygiene and safety regulations.

This data sheet cancels and replaces all previous editions.

SHINE PRO

Safety Datasheet of 16/07/2004



1. IDENTIFICATION OF PREPARATION AND THE SUPPLIER

Trade Name: SHINE PRO

Product type and application: special acidic detergent for vitreous mosaic.

Supplier: BISAZZA S.p.A.- Via Milano, 56 - 36041 Montecchio (VI)

Telephone number for urgent requirements: company and/or official advisory body:

BISAZZA S.p.A. - Tel: (+39) 0444-707511

Poisons Centre - Niguarda Hospital - Milan - Tel. (+39) 0266101029

2. INFORMATION ON INGREDIENTS

Name of constituents in compliance with 89/542/EEC (for the products covered by the directive) indicated in the range:

0.20 ÷ 5.00%	Non-ionic and non-cationic surface active agents, perfume, acrylic polymer, colourants
5.00 ÷ 15.00%	Sulfamic acid
15.00 ÷ 30.00%	
> 30.00%	Water

Hazardous ingredients for health as defined by Directive 67/548/EEC and relative classification:

<13% Sulfamic acid

CAS: 5329-14-6 EINECS: 226-218-8

Xi; R36/38

<2.50% Hydroxyethyl amine fatty acid

CAS: 13127-82-7

C, N; R22 34 50

3. HAZARDS IDENTIFICATION

Health risks:	Xi irritant classification.
Ingestion:	Can cause acid burns in the mouth and upper digestive tract with possible perforation. Metabolic acidosis in the most serious cases.
Inhalation:	No negative effects in normal conditions of use; mixing the product with substances containing chlorine can give rise to the formation of vapour that is extremely irritating for the respiratory tracts.
Contact with skin:	Can cause irritation, sometimes of a persistent nature.
Contact with eyes:	Can cause conjunctival and corneal damage due to caustic burns.

4. FIRST AID MEASURES

Contact with skin:	Remove contaminated clothing and wash the affected area with plenty of clean running water. If the area of contact is extensive or irritating symptoms persist, seek medical attention; treatment is identical to that used for heat burns.
Contact with eyes:	Wash eyes with eyelids open in running water for 15 minutes; seek the attention of an ophthalmologist immediately
Ingestion:	Acid product. Hospitalization of victim is necessary if preparation is swallowed. If victim is conscious administer only water if required. If unconscious, loosen victim's clothing and move him into recovery position lying on left side
Inhalation:	Ventilate the area. Remove casualty immediately from contaminated area and allow them to recover in a well-ventilated place. If symptoms persist seek medical attention

5. FIRE FIGHTING MEASURES

Recommended extinguishing media: Chemical powder. Water spray to eliminate vapour.

Prohibited extinguishing media: none.

Combustion risks: Vapours are non-flammable and non-explosive. Fumes generated by combustion are highly irritating for eyes, skin and respiratory system.

Protective equipment: Use respiratory protection, suitable protective apparel, goggles and protective gloves.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Avoid contact with persons and objects. Cleaning personnel must wear personal protective equipment

Environmental precautions: Do not pollute water courses or drains. If the product reaches a water course, the sewage system, or contaminates soil or vegetation, inform the competent authorities.

Spillages: Contain the spillage with sand or earth. Put on protective apparel and collect spilled product rapidly. Collect product for reuse if possible, or for disposal. Absorb spillage with inert material.

7. HANDLING AND STORAGE

Handling precautions: Avoid contact with eyes and skin.

Storage conditions: Keep containers tightly closed at all times.

Storage area: Storage area must be cool and well ventilated.

8. PERSONAL PROTECTION / EXPOSURE CONTROLS

Precautionary measures: Ventilate the rooms in which the product is stored and/or handled.

Respiratory protection: Not required during normal use.

Hand protection: Rubber gloves.

Eye protection: Avoid contact with eyes.

Skin protection: Not required during normal use. Remove any contaminated clothing immediately and wash before reusing .

Occupational exposure limits: Sulfamic acid 6 mg/m³ (general)

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Colour:	yellow liquid
Odour:	Balsamic - mentholated
pH:	0.60 ± 0.50
Boiling point:	< 100 °C
Flash point:	Non flammable
Vapour pressure:	-
Relative density:	1.069 ± 0.020 g/ml
Water solubility:	Soluble
Lipid solubility:	Insoluble in the majority of solvents
Viscosity :	Not viscous
Vapour density:	-
Volatility:	-

10. STABILITY AND REACTIVITY

Conditions to avoid: Contact with other products.

Materials to avoid: Metals, strong alkalines, oxidising agents and bleach.

Hazardous decomposition products: Chlorine evolved on contact with bleach.

11. TOXICOLOGICAL INFORMATION

Toxicological information relative to preparation: No experimental data available. Effects on health are related to the hazardous properties of the components in

SHINE

Safety Data Sheet of 02/08/2005

1. IDENTIFICATION OF PRODUCT AND COMPANY

Company name: SHINE

Product type and purpose: special detergent for glass mosaic.

Supplier: BISAZZA S.p.A.- Via Milano, 56 - 36041 Montecchio (VI)

Telephone number of company and/or official advisory body:

BISAZZA S.p.A. - Tel: (+39) 0444-707511

Poison Centre - Niguarda Hospital - Milan - Tel. (+39) 0266101029

2. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients hazardous to health as defined in Directive 67/548/EEC and related classification:

None

3. HAZARD IDENTIFICATION

No specific hazards under normal conditions of use.

4. FIRST AID MEASURES

Contact with skin:

Wash affected area with plenty of water and soap.

Contact with eyes:

Wash eyes immediately with clean water for at least 10 minutes

Ingestion:

Induce vomiting. Seek medical advice immediately and show this safety datasheet. A suspension of activated carbon in water or medicinal mineral vaseline oil may be administered

Inhalation:

Ventilate the area. Remove casualty immediately from contaminated area and allow to recover in a well-ventilated place. If symptoms persist, call a doctor

5. FIRE-FIGHTING MEASURES

Suitable types of fire extinguisher: Water, CO₂, foam, chemical powder depending on the materials involved.

Extinguishers not to be used:

none.

Fire hazards:

Avoid inhaling the fumes.

Protective equipment:

Use respiratory protection, suitable protective clothing, goggles and gloves.

6. MEASURES IN THE EVENT OF ACCIDENTAL DISPERSION

Personal precautions:

Wear gloves and protective clothing

Environmental precautions:

Do not pollute water courses or drains. If the product reaches a water course, the sewerage system, or contaminates the soil or vegetation, inform the competent authorities.

Spillages:

Contain the spillage with sand or earth. Put on protective clothing and collect the spilled product rapidly. Collect product for reuse if possible, or for disposal. Absorb spillage if possible, using an inert material.

7. HANDLING AND STORAGE

Handling precautions:

Avoid contact and inhalation of the vapours.

Storage conditions:

Keep containers tightly closed at all times.

Storage area:

Storage area must be adequately ventilated.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Precautionary measures:

Ventilate the rooms in which the product is stored and/or handled.

Respiratory protection:	Not required during normal use.
Hand protection:	Not required during normal use.
Eye protection:	Not required during normal use. Always use good working practices.
Skin protection:	Not required during normal use.
Occupational exposure limits:	None

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Blue liquid
Odour:	Balsamic - menthol
pH:	6 - 7
Boiling point:	100°C approximately
Flash point:	Non flammable
Vapour pressure:	-
Density:	1.005 ± 0.050 gr/ml
Water solubility:	Soluble
Fat solubility:	-
Viscosity :	Not viscous
Vapour density:	-
Evaporation rate:	-

10. STABILITY AND REACTIVITY

Conditions to avoid:	Stable in normal conditions.
Materials to avoid:	None in particular.
Hazardous decomposition products:	None.

11. TOXICOLOGICAL INFORMATION

Toxicological information about the preparation:	No experimental data available. Effects on health are related to the hazardous properties of the components in proportion to their concentration in the product (see section 2).
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12. ECOLOGICAL INFORMATION

Adopt good working practices.

Use all the necessary measures to prevent the product from being released into the environment. Do not dispose of waste product in drains or surface water. Dispose of empty containers according to local regulations.

Ingredients hazardous to the environment and relative classification:

0.25% - 0.5% polyethoxylated aliphatic amine

CAS: 26635-93-8 EINECS: 500-048-7

R51/53 Toxic to aquatic organisms, can have long-term negative effects on the aquatic environment.

13. DISPOSAL

Recover spillages if possible. Follow the current local and national environmental regulations.

Product disposal (CER code): 070699

14. TRANSPORT INFORMATION

Follow good transportation and conveyance practice within or outside the premises

ONU number:	-
RID/ADR:	not classified as hazardous
MO/IMDG:	not classified as hazardous
MAR/POL 73/78, Annex III:	no
Air freight (ICAO/IATA):	not classified as hazardous

15. REGULATORY INFORMATION

Directive 99/45/EC (Classification and Labelling):

The preparation is not considered hazardous

16. OTHER INFORMATION

The information in this data sheet is based on the facts available at the time of publishing and does not constitute a guarantee of any specific properties.

To be used correctly, the product must be stored, handled, and used in accordance with the current health and safety legislation.

This data sheet cancels and replaces all previous editions.