



Sioen's Anti-Graffiti Lacquer for Spraying Application

Composition: Sioen's anti-graffiti lacquer for spraying application is based on advanced polymer technology. The active substance in the formulation is a tailor-made graft-type acrylate copolymer with excellent surface properties. It is a two-component system that can easily be formulated to its final application form, being a sprayable, solvent-borne, crosslinkable, topcoat material with excellent anti-graffiti properties on PVC substrates.

Processing instructions: The two components A and B have to be mixed in a 195 : 5 ratio. In other words, per 195 g of component A one needs to add 5 g of component B. After mixing the spraying formulation can be applied directly. Once the two components are mixed, one has to use the anti-graffiti spraying formulation within 2-3 hours (depending on the environmental conditions).

The concentration of the spraying formulation is ca. 9%. The viscosity is in the order of 20-30 mPas/cP. If necessary one can dilute the spraying formulation with n-butyl acetate.

The spraying formulation has to be applied in a well-suited environment (EX area, sufficient ventilation, etc.) with professional pressurized spraying equipment. An example of such spraying equipment is the SATA jet 3000 from SATA. The preferred nozzle diameter is 1.0 mm. A typical pressure is 3-4 bar. Spraying conditions are preferably 20-25 degree Celsius and 60% relative humidity. It is advised to apply a dry coating thickness of ca. 3-6 microns (= ca. 25-50 microns wet). Cross-flow spraying is preferred. The drying time depends on the environmental conditions such as temperature. One has to take into account that it takes appr. 24 hours before the lacquer has gained its optimal anti-graffiti properties. Personal protection equipment (gloves, mask protection, etc.) ensuring no direct contact with the formulation is extremely important!

It is always advised to test the compatibility between the lacquer and the (imaged) substrate first.

Storage and transportation: The two components should be stored between 15 and 25 degree Celsius. The shelf life of the individual components is 6 months.

Handling & safety instructions: see safety data sheets of the individual components.





SAFETY DATA SHEET

1 - IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Identification of the substance or preparation:

Name: GRAFFITI STOP COMPONENT A.
Product code: GRAFFITI STOP COMP A.

Company/undertaking identification:

Registered company name: Sioen Industries N.V..
Address: Fabriekstraat 23.8850.Ardooie.Belgium.
Telephone: ++32/(0)51 74 09 80. Fax: ++32/(0)51 74 09 79.
info@sioen.be
www.sioen.com

Emergency telephone: .

Association/Organisation: .

2 - HAZARDS IDENTIFICATION

This product is classed: Highly flammable liquid.
Possibility of irritation to the eyes.
Possibility of skin sensitisation. The preparation may also irritate the skin and prolonged contact may aggravate this effect.
Possibility of category one toxic effects on reproduction.
May cause harm to the unborn child.
Repeated exposure may cause skin dryness or cracking.
Vapors may cause drowsiness and dizziness.

3 - COMPOSITION/INFORMATION ON INGREDIENTS

Full text of risk phrases appearing in section 3: see section 16.

Hazardous substances present on their own:

(present in the preparation at a sufficient concentration to give it the toxicological characteristics it would have in a 100% pure state)

INDEX	CAS	EC	Name	Symb.	R:	%
SIOEN			GRAFT TYPE ACRYLATE COPOLYMER IN ORGANIC SOLVENT MIXTURE	T F	43 36 11 61.G1 66 67	100 %

Other substances representing a hazard:

No known substance in this category present.

Substances present at a concentration below the minimum danger threshold:

No known substance in this category present.

Other substances with occupational exposure limits:

No known substance in this category present.

4 - FIRST AID MEASURES

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

In the event of splashes or contact with eyes:

Wash thoroughly with soft, clean water for 15 minutes holding the eyelids open.
Refer the patient to an ophthalmologist, in particular if there is any redness, pain or visual impairment.
Regardless of the initial state, refer the patient to an ophthalmologist and show him the label.

In the event of splashes or contact with skin:

Wash with water and soap.

In the event of swallowing:

In the event of swallowing, if the quantity is small (no more than one mouthful), rinse the mouth with water and consult a doctor.
Call a doctor immediately and show him the label.

5 - FIRE-FIGHTING MEASURES

Chemical powders, carbon dioxide and other extinguishing gas are suitable for small fires.

Suitable extinguishing media:

Foam.

Extinguishing media which must not be used for safety reasons:

Sometimes, and due to the presence of organic material, a fire may produce a thick black smoke. Exposure to decomposition products may be hazardous to health.

Do not breathe in smoke.

Prevent the effluent of fire-fighting measures from entering drains or waterways.

Jet spray water.

Special protective equipment for fire-fighters:

Fire-fighting personnel are to be equipped with autonomous insulating breathing apparatus.

6 - ACCIDENTAL RELEASE MEASURES

Personal precautions:

Avoid inhaling the vapors.

Avoid any contact with the skin and eyes.

Consult the safety measures listed under headings 7 and 8.

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.

Use drums to dispose of waste recovered in accordance with applicable regulations (see heading 13).

If the product contaminates waterways, rivers or drains, alert the relevant authorities in accordance with statutory procedures

Methods for cleaning up:

Clean preferably with a detergent, do not use solvents.

7 - HANDLING AND STORAGE

The regulations relating to storage premises apply to workshops where the product is handled.

Anyone with a history of skin sensitisation must on no account handle such products

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

Handling:

Prevent the formation of flammable or explosive concentrations in air and avoid vapor concentrations higher than the occupational exposure limits.

Fire prevention:

Prevent the accumulation of electrostatic charges with connections to earth

The preparation may become electrostatically charged; always place on the ground during transfer. Wear antistatic shoes and clothes and make floors of conductive materials.

Use the product in premises where there are no naked flames or other sources of ignition and have protected electrical equipment

Keep packages tightly closed and away from sources of heat, sparks and naked flames.

Do not use tools which may produce sparks. Do not smoke.

Prevent access by unauthorised personnel.

Recommended equipment and procedures:

For personal safety, see §8.

Observe precautions stated on label and also industrial safety regulations

Avoid exposure - obtain special instructions before use.

Avoid inhaling vapors.

Avoid contact of product with the skin and eyes

Prohibited equipment and procedures:

Smoking, eating and drinking are prohibited in premises where the preparation is used

Never open the packages under pressure

Storage:

Keep the container tightly closed in a dry, well-ventilated place

Keep away from all sources of ignition - do not smoke.

Keep well away from all sources of ignition, heat and direct sunlight

8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Use personal protection equipment as per Directive 89/686/EEC.

Anyone with a history of skin sensitisation must on no account handle such products.

Hand protection:

Protective creams may be used for exposed skin, but they should not be applied after contact with the product.

In the event of prolonged or repeated contact with the hands, use appropriate gloves.

Eye and face protection:

Avoid contact with eyes.

Wear safety goggles.

Provide eye washes in workshops where the product is constantly handled

Skin protection:

For further information, see § 11 of S.D.S. - Toxicological information.

9 - PHYSICAL AND CHEMICAL PROPERTIES

General information:

Physical state: viscous liquid

Important health, safety and environmental information:

pH of the substance or preparation: not relevant.

The pH is impossible to measure or its value is not relevant.

Boiling point/boiling range: not relevant.

Flash point interval: Flash point ≤ 21°C

Vapour pressure: Below 110 kPa (1.10 bar).

Density: > 1

Water solubility: Soluble.

Other information:

melting point/melting range: not relevant.

Self-ignition temperature: not relevant.

Decomposition point/decomposition range : not relevant.

10 - STABILITY AND REACTIVITY

Any apparatus likely to produce a flame or to have a metallic surface at high temperature (burners, electric arcs, furnaces etc.) must not be allowed on the premises.

11 - TOXICOLOGICAL INFORMATION

No data is available regarding the preparation itself.

It is generally agreed that substances contained are likely to cause, when applied to the eye of an animal, the appearance of major lesions which persist for at least twenty-four hours

It is generally agreed that substances contained are likely to cause, among certain predisposed subjects, a sensitisation reaction by cutaneous route

It is generally agreed that substances contained are likely to cause category 1 teratogenic effects.

12 - ECOLOGICAL INFORMATION

No ecological data on the product itself is available.

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

13 - DISPOSAL CONSIDERATIONS

Do not pour into drains or waterways.

Waste:

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.

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 2007 - IMDG 2006 - ICAO/IATA 2007).

UN1263=PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning and reducing compound)

ADR/RID	Class	Code	Pack gr.	Label	Ident.	LQ	Provis.
	3	F1	II	3	33	LQ6	163 640D 650



IMDG	Class	2 ^o Label	Pack gr.	LQ	EMS	Provis.		
	3	-	II	5 L	F-E,S-E	163 944		
IATA	Class	2 ^o Label	Pack gr.	Passager	Passager	Cargo	Cargo	note
	3	-	II	305	5 L	307	60 L	A3 A72
	3	-	II	Y305	1 L	-	-	-

15 - REGULATORY INFORMATION

This preparation was classified in compliance with the directive known as <All preparations> 1999/45/EC and its adaptations
In addition directive 2008/58/EC with the 30° adaptation of directive 67/548/EEC (Hazardous substances) have been taken into account.
In addition directive 2009/2/EC with the 31° adaptation of directive 67/548/EEC (Hazardous substances) have been taken into account.
In addition Regulation (EC) No 1272/2008 have been taken into account.

Preparation classification:



Toxic



Highly flammable

Contains:

GRAFT TYPE ACRYLATE COPOLYMER IN ORGANIC SOLVENT MIXTURE

Particular hazards associated with the preparation and safety recommendations:

R 43	May cause sensitisation by skin contact.
R 36	Irritating to eyes.
R 11	Highly flammable.
R 61	May cause harm to the unborn child.
R 66	Repeated exposure may cause skin dryness or cracking.
R 67	Vapours may cause drowsiness and dizziness.
	For professional use only.
S 24	Avoid contact with skin.
S 37	Wear suitable gloves.
S 45	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
S 53	Avoid exposure - obtain special instructions before use.
S 16	Keep away from sources of ignition - No smoking.
S 26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S 38	In case of insufficient ventilation, wear suitable respiratory equipment.
S 60	This material and its container must be disposed of as hazardous waste.
S 9	Keep container in a well-ventilated place.
	Product submitted to restrictions on the marketing and use: see Directive 76/769/EEC and its ensuing adaptations.

Particular provisions:

Product not to be sold to the general public. (Dir 76/769/EC) - For professional use only.
Attention - Avoid exposure - obtain special instructions before use.

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 product must not be used for any purposes other than those specified under heading 1 without first obtaining 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 given on this safety data sheet must be regarded as a description of the safety requirements relating to our product and not a guarantee of its properties

Full text of risk phrases appearing in section 3:

R 11	Highly flammable.
R 36	Irritating to eyes.
R 43	May cause sensitisation by skin contact.
R 61.G1	May cause harm to the unborn child.
R 66	Repeated exposure may cause skin dryness or cracking.
R 67	Vapours may cause drowsiness and dizziness.



SAFETY DATA SHEET

1 - IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Identification of the substance or preparation:

Name: GRAFFITI STOP COMPONENT B.

Product code: GRAF STOP COMPON B.

Company/undertaking identification:

Registered company name: Sioen Industries N.V..

Address: Fabriekstraat 23.8850.Ardooie.Belgium.

Telephone: ++32/(0)51 74 09 80. Fax: ++32/(0)51 74 09 79.

info@sioen.be

www.sioen.com

Emergency telephone: .

Association/Organisation: .

2 - HAZARDS IDENTIFICATION

This product is classed: Flammable.

Possibility of skin sensitisation. The preparation may also irritate the skin and prolonged contact may aggravate this effect.

3 - COMPOSITION/INFORMATION ON INGREDIENTS

Full text of risk phrases appearing in section 3: see section 16.

Hazardous substances present on their own:

(present in the preparation at a sufficient concentration to give it the toxicological characteristics it would have in a 100% pure state)

INDEX	CAS	EC	Name	Symb.	R:	%
EMB364			DIISOCYANATE	Xi	43	100 %

Other substances representing a hazard:

No known substance in this category present.

Substances present at a concentration below the minimum danger threshold:

No known substance in this category present.

Other substances with occupational exposure limits:

No known substance in this category present.

4 - FIRST AID MEASURES

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

NEVER induce swallowing in an unconscious person.

In the event of splashes or contact with eyes:

Clean with water 15 minutes

In the event of splashes or contact with skin:

Wash with water and soap.

In the event of swallowing:

See a doctor.

5 - FIRE-FIGHTING MEASURES

Chemical powders, carbon dioxide and other extinguishing gas are suitable for small fires.

Suitable extinguishing media:

Foam.

Extinguishing media which must not be used for safety reasons:

Sometimes, and due to the presence of organic material, a fire may produce a thick black smoke. Exposure to decomposition products may be hazardous to health.

Do not breathe in smoke.

Prevent the effluent of fire-fighting measures from entering drains or waterways.

Special protective equipment for fire-fighters:

Fire-fighting personnel are to be equipped with autonomous insulating breathing apparatus.

6 - ACCIDENTAL RELEASE MEASURES

Personal precautions:

- Avoid inhaling the vapors.
- Consult the safety measures listed under headings 7 and 8.

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.
- Use drums to dispose of waste recovered in accordance with applicable regulations (see heading 13).
- If the product contaminates waterways, rivers or drains, alert the relevant authorities in accordance with statutory procedures

Methods for cleaning up:

- Clean preferably with a detergent, do not use solvents.

7 - HANDLING AND STORAGE

- The regulations relating to storage premises apply to workshops where the product is handled.
- Anyone with a history of skin sensitisation must on no account handle such products

Handling:

- Prevent the formation of flammable or explosive concentrations in air and avoid vapor concentrations higher than the occupational exposure limits.

Fire prevention:

- Prevent the accumulation of electrostatic charges with connections to earth
- The preparation may become electrostatically charged; always place on the ground during transfer. Wear antistatic shoes and clothes and make floors of conductive materials.
- Use the product in premises where there are no naked flames or other sources of ignition and have protected electrical equipment
- Keep packages tightly closed and away from sources of heat, sparks and naked flames.
- Do not use tools which may produce sparks. Do not smoke.
- Prevent access by unauthorised personnel.

Recommended equipment and procedures:

- For personal safety, see §8.
- Observe precautions stated on label and also industrial safety regulations
- Avoid inhaling vapors.
- Avoid contact of product with the skin and eyes

Prohibited equipment and procedures:

- Smoking, eating and drinking are prohibited in premises where the preparation is used
- Never open the packages under pressure

Storage:

- Keep the container tightly closed in a dry place.
- Keep away from all sources of ignition - do not smoke.
- Keep well away from all sources of ignition, heat and direct sunlight

8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

- Use personal protection equipment as per Directive 89/686/EEC.
- Anyone with a history of skin sensitisation must on no account handle such products.

Skin protection:

- For further information, see § 11 of S.D.S. - Toxicological information.

9 - PHYSICAL AND CHEMICAL PROPERTIES

General information:

- Physical state: viscous liquid

Important health, safety and environmental information:

- pH of the substance or preparation: not relevant.
- The pH is impossible to measure or its value is not relevant.
- Boiling point/boiling range: not relevant.
- Flash point interval: 23°C <= Flash point <= 55°C
- Vapour pressure: Below 110 kPa (1.10 bar).
- Density: > 1
- Water solubility: Soluble.

Other information:

- melting point/melting range: not relevant.
- Self-ignition temperature: not relevant.

Decomposition point/decomposition range :

not relevant.

10 - STABILITY AND REACTIVITY

The preparation is stable at the handling and storage conditions recommended per § 7 of the safety data sheet,

11 - TOXICOLOGICAL INFORMATION

No data is available regarding the preparation itself.

It is generally agreed that substances contained are likely to cause, among certain predisposed subjects, a sensitisation reaction by cutaneous route

12 - ECOLOGICAL INFORMATION

No ecological data on the product itself is available.

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

13 - DISPOSAL CONSIDERATIONS

Do not pour into drains or waterways.

Waste:

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.

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 2007 - IMDG 2006 - ICAO/IATA 2007).

UN1866=RESIN SOLUTION, flammable

ADR/RID	Class	Code	Pack gr.	Label	Ident.	LQ	Provis.
	3	F1	III	3	30	LQ7	640E



Not subject to this regulation if Q < 450l.

IMDG	Class	2Label	Pack gr.	LQ	EMS	Provis.
	3	-	III	5 L	F-E,S-E	223 944 955

Not subject to this regulation if Q < 30l

IATA	Class	2Label	Pack gr.	Passager	Passager	Cargo	Cargo	note
	3	-	III	309	60 L	310	220 L	A3
	3	-	III	Y309	10 L	-	-	-

15 - REGULATORY INFORMATION

This preparation was classified in compliance with the directive known as <All preparations> 1999/45/EC and its adaptations -

In addition directive 2008/58/EC with the 30° adapt ation of directive 67/548/EEC (Hazardous substances) have been taken into account.

In addition directive 2009/2/EC with the 31° adapta tion of directive 67/548/EEC (Hazardous substances) have been taken into account.

In addition Regulation (EC) No 1272/2008 have been taken into account.

Preparation classification:



Irritant

Flammable

Contains:

DIISOCYANATE

Particular hazards associated with the preparation and safety recommendations:

R 43	May cause sensitisation by skin contact.
R 10	Flammable.
S 24	Avoid contact with skin.
S 37	Wear suitable gloves.

S 60

This material and its container must be disposed of as hazardous waste.

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 product must not be used for any purposes other than those specified under heading 1 without first obtaining 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 given on this safety data sheet must be regarded as a description of the safety requirements relating to our product and not a guarantee of its properties

Full text of risk phrases appearing in section 3:

R 43

May cause sensitisation by skin contact.