

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 06.05.2015

Version: 2

Revision: 05.05.2015

SECTION 1: Identification of the substance/mixture and of the company/ undertaking

1.1 Product identifier

Trade name **SIGNTREAT – High Performance Glass Primer**

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

No further relevant information available.

Application of the substance / the preparation: Adhesion promoter/primer

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

SIGNRACER GmbH
Gartenweg 24
CH-6343 Buonas

Phone: +41-41-7920157

Mobil: +41-76-3390158

Informing department:

Product Safety Department
e-mail: ralf.timm@signracer.ch

1.4 Emergency telephone number: +41 41 7920157 (Business hours: 08.00-17.00)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Fam. Liq. 2 H225 Highly flammable liquid and vapour.

Eye Irrit. 2 H319 Causes serious eye irritation.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC

Xi; Irritant

R36: Irritating to eyes.

F; Highly flammable

R11: Highly flammable.

R67: Vapours may cause drowsiness and dizziness.

Information concerning particular hazards for human and environment:

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

Classification system:

The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

Hazard pictograms



GHS02 GHS07

Signal word Danger

Hazard statements

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P241 Use explosion-proof electrical/ventilating/lighting/equipment.

(Contd. on page 2)

GB

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 06.05.2015

Version: 2

Revision: 05.05.2015

Trade name SIGNTREAT – High Performance Glass Primer

(Contd. of page 1)

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P321 Specific treatment (see on this label).
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

3.2 Chemical characterisation: Mixtures

Description: Mixture of the following components:

Dangerous components:

CAS: 67-63-0 EINECS: 200-661-7 Index number: 603-117-00-0 Reg.nr.: 01-2119457558-25-XXXX	propan-2-ol ☒ Xi R36; ☒ F R11 R67 ☒ Flam. Liq. 2, H225 ☒ Eye Irrit. 2, H319; STOT SE 3, H336	>75%
CAS: 64-19-7 EINECS: 200-580-7 Index number: 607-002-00-6 Reg.nr.: 01-2119475328-30-XXXX	acetic acid ☒ C R35 R10 ☒ Flam. Liq. 3, H226 ☒ Skin Corr. 1A, H314	1-5%

Non-dangerous components

CAS: 2530-85-0 EINECS: 219-785-8 Index number: 607-134-00-4 Reg.nr.: 01-2119513216-50-XXXX	3-trimethoxysilylpropyl methacrylate	1-5%
---	--------------------------------------	------

Additional information For the wording of the listed risk phrases refer to section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information Instantly remove any clothing soiled by the product.

After inhalation

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness bring patient into stable side position for transport.

After skin contact

Instantly wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

After eye contact Rinse opened eye for several minutes under running water.

After swallowing

Rinse out mouth and then drink plenty of water.

In case of persistent symptoms consult doctor.

4.2 Most important symptoms and effects, both acute and delayed

Asthma attacks
Headache
Dazed
Sickness/Nausea
Disziness

(Contd. on page 3)

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 06.05.2015

Version: 2

Revision: 05.05.2015

Trade name **SIGNTREAT – High Performance Glass Primer**

(Contd. of page 2)

Danger At swallowing alternatively vomiting eliminate the danger to penetrate the lungs.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents Water spray, foam, carbon dioxide, dry extinguishing agents

For safety reasons unsuitable extinguishing agents Water with a full water jet.

5.2 Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

Can be released in case of fire:

carbon monoxide (CO)

carbon dioxide (CO₂)

5.3 Advice for firefighters

Protective equipment: Wear self-contained breathing apparatus.

Additional information

Cool endangered containers with water spray.

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

6.2 Environmental precautions:

Do not allow product to reach sewage system, surface/ground water or soil.

6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders).

Dispose of contaminated material as waste according to chapter 13.

Do not flush with water or aqueous cleansing agents

Ensure adequate ventilation.

6.4 Reference to other sections

See Section 8 for information on personal protection equipment.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).

Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Product is combustible.

Keep away from combustible materials, open flames and all sources of heat.

7.2 Conditions for safe storage, including any incompatibilities

Storage

Requirements to be met by storerooms and containers:

Store only in the original container.

Use only containers specifically permitted for this substance/product.

Provide solvent resistant, sealed floor.

Information about storage in one common storage facility: Store away from oxidising agents.

Further information about storage conditions:

Keep container tightly sealed.

(Contd. on page 4)

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 06.05.2015

Version: 2

Revision: 05.05.2015

Trade name SIGNTREAT – High Performance Glass Primer

(Contd. of page 3)

Store in cool, dry conditions in well sealed containers.
Protect from heat and direct sunlight.

Storage class 3

7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

Additional information about design of technical systems: No further data; see chapter 7.

8.1 Control parameters

Components with critical values that require monitoring at the workplace:

DNELs

67-63-0 propan-2-ol

DNEL	319 mg/kg/day (consumer - dermal)
	89 mg/m ³ (consumer - inhalative)
	26 mg/kg/day (consumer - oral)
	888 mg/kg/day (workers - dermal)
	500 mg/cm ³ (workers - inhalative)

64-19-7 acetic acid

DNEL	25 mg/m ³ (general population - inhalation)
	25 mg/m ³ (long-term inhalativ worker systemic)
	25 mg/m ³ (short-term inhalativ consumer local)

PNECs

67-63-0 propan-2-ol

PNEC	140.9 mg/L (freshwater)
	552 mg/kg (sediment - freshwater)
	552 mg/kg (sediment - marine water)
	140.9 mg/L (marine water)

64-19-7 acetic acid

PNEC	3.058 mg/L (freshwater)
	assesment factor
	11.36 mg/kg (sediment - freshwater)
	statistical extraploration
	1.136 mg/kg (sediment - marine water)
	statistical extraploration
	85 mg/L (sewage treatment plant)
	assesment factor
	0.3058 mg/L (marine water)
	assesment factor

Additional information: The lists that were valid during the compilation were used as basis.

8.2 Exposure controls

Personal protective equipment

General protective and hygienic measures

Keep away from foodstuffs, beverages and food.
Instantly remove any soiled and impregnated garments.
Wash hands during breaks and at the end of the work.
Avoid contact with the eyes and skin.

Breathing equipment:

In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.

(Contd. on page 5)

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 06.05.2015

Version: 2

Revision: 05.05.2015

Trade name SIGNTREAT – High Performance Glass Primer

(Contd. of page 4)

Protection of hands:

Protective gloves (EN 374)

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

Butyl rubber

Nitrile rubber, NBR

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The protective gloves to be used must comply with the specifications of EC-Directive 89/686/EG and the related standard EN374, for example KCL 898 Butoject® (full contact), KCL 890 Vitoject® (splash contact).

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection: Tightly sealed safety glasses (EN 166)

Body protection: Protective work clothing: DIN EN 13034

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Appearance:

Form:	Fluid
Colour:	Colourless Clear
Smell:	Alcohol-like

pH-value: Not determined.

Change in condition

Melting point/Melting range: Not determined
Boiling point/Boiling range: Not determined

Flash point: 12 °C

Ignition temperature: 425 °C

Self-inflammability: Product is not selfigniting.

Danger of explosion: Product is not explosive. However, formation of explosive air/steam mixtures is possible.

Critical values for explosion:

Lower: 2.0 Vol %
Upper: 12.0 Vol %

Vapour pressure: Not determined.

Density at 20 °C 0.78 g/cm³

Solubility in / Miscibility with Water: Fully miscible

(Contd. on page 6)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 06.05.2015

Version: 2

Revision: 05.05.2015

Trade name SIGNTREAT – High Performance Glass Primer

(Contd. of page 5)

Solvent content:

Organic solvents: >75

9.2 Other information No further relevant information available.

SECTION 10: Stability and reactivity

10.1 Reactivity

10.2 Chemical stability

Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions

Can form explosive mixtures in air if heated above flash point and/or when sprayed or atomised

Reacts with strong oxidizing agents

10.4 Conditions to avoid Heat, flames, sparks and other sources of ignition

10.5 Incompatible materials: strong oxidizing agent.

10.6 Hazardous decomposition products: carbon monoxide (CO) and carbon dioxide (CO₂)

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

LD/LC50 values that are relevant for classification:

67-63-0 propan-2-ol

Oral	LD50	>2000 mg/kg (rat)
	LDLo	3570 mg/kg (human)
Dermal	LD50	>2000 mg/kg (rabbit)
Inhalative	LC50/4h	46.5 mg/L (rat)

64-19-7 acetic acid

Oral	LD50	3310 mg/kg (rat)
Dermal	LD50	1060 mg/kg (rabbit)
Inhalative	LC50/4h	11.4 mg/L (rat)

2530-85-0 3-trimethoxysilylpropyl methacrylate

Oral	LD50	>2000 mg/kg (rat) (OECD 423)
Dermal	LD50	>2000 mg/kg (rabbit) (OECD 402)
Inhalative	LC50/4h	>2.28 mg/L (rat) (OECD 403)

Primary irritant effect:

Skin corrosion/irritation No irritant effect.

Serious eye damage/irritation Irritant effect (OECD 405)

Respiratory or skin sensitisation No sensitizing effect known.

Subacute to chronic toxicity:

Experience with humans: Longer-term skin contact may defat the skin and result in skin irritation and dermatitis.

Narcotic effect when inhaling high concentrations, with the danger of central respiratory paralysis.

Temporarily damage to liver and kidney possible. Effects on the central nervous system possible.

Aspiration Hazard: If swallowed or vomited may cause chemical pneumonitis in the lungs which can be fatal.

Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:

(Contd. on page 7)

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 06.05.2015

Version: 2

Revision: 05.05.2015

Trade name SIGNTREAT – High Performance Glass Primer

Irritant

(Contd. of page 6)

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

67-63-0 propan-2-ol

EC5	4930 (72h) mg/L (entosiphon sulcatum) 1000 (8d) mg/L (microcystis aeruginosa) 1050 (16h) mg/L (pseudomonas putida)
EC50	2285 (48h) mg/L (daphnia magma) 22000 (15') mg/L (photobacterium phosphoreum)
IC5	> 1000 (72h) mg/L (desmodesmus subspicatus) >100 (72h) mg/L (scenedesmus subspicatus)
LC50	9640 (96h) mg/L (pimephales promelas)

64-19-7 acetic acid

EC5	78 (72h) mg/L (entosiphon sulcatum) 2850 (16h) mg/L (pseudomonas putida)
EC50	>300.82 (48h) mg/L (daphnia magma) (OECD 202) 11 (15 ') mg/L (photobacterium phosphoreum)
IC5	4000 (16h) mg/L (scenedesmus quadricauda)
LC50	>300.82 (96h) mg/L (oncorhynchus mykiss) (OECD 203) 88 (96h) mg/L (pimephales promelas)

2530-85-0 3-trimethoxysilylpropyl methacrylate

EC50 (static)	>876 (48h) mg/L (daphnia magma) >1000 (3h) mg/L (pseudomonas putida) (OECD 209)
IC50 (static)	>536 (72h) mg/L (pseudokirchneriella subcapitata)
LC50	>1042 (96h) mg/L (danio rerio)

12.2 Persistence and degradability No further relevant information available.

12.3 Bioaccumulative potential No further relevant information available.

12.4 Mobility in soil No further relevant information available.

Additional ecological information:

General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water.

Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation

Waste material must be disposed of in accordance with Directive on waste 2008/98/EC as well as national and local regulations.

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

(Contd. on page 8)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 06.05.2015

Version: 2

Revision: 05.05.2015

Trade name SIGNTREAT – High Performance Glass Primer

Uncleaned packagings:

Recommendation: Disposal must be made according to official regulations.

(Contd. of page 7)

SECTION 14: Transport information

14.1 UN-Number
ADR, IMDG, IATA

UN1219

14.2 UN proper shipping name
IMDG, IATA

ISOPROPANOL (ISOPROPYL ALCOHOL) solution

14.3 Transport hazard class(es)
ADR, IMDG, IATA



Class
Label

3 Flammable liquids.
3

14.4 Packing group
ADR, IMDG, IATA

II

14.5 Environmental hazards:
Marine pollutant:

No

14.6 Special precautions for user
Kemler Number:
EMS Number:

Warning: Flammable liquids.
33
F-E,S-D

14.7 Transport in bulk according to Annex II of
MARPOL73/78 and the IBC Code

Not applicable.

Transport/Additional information:

ADR

Limited quantities (LQ)
Excepted quantities (EQ)

1L
Code: E2
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 500 ml

Transport category
Tunnel restriction code

2
D/E

IMDG

Limited quantities (LQ)
Excepted quantities (EQ)

1L
Code: E2
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 500 ml

UN "Model Regulation":

UN1993, FLAMMABLE LIQUID, N.O.S. (1-METHOXY-2-PROPANOL, METHYL METHACRYLATE MONOMER, STABILIZED), special provision 640D, 3, II

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 06.05.2015

Version: 2

Revision: 05.05.2015

Trade name SIGNTREAT – High Performance Glass Primer

(Contd. of page 8)

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Directive 2012/18/EU

Named dangerous substances - ANNEX I None of the ingredients is listed.

Seveso category P5c FLAMMABLE LIQUIDS

Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 t

Qualifying quantity (tonnes) for the application of upper-tier requirements 50,000 t

National regulations

Technical instructions (air):

Class	Share in %
NK	94.5

Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H314 Causes severe skin burns and eye damage.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

R10 Flammable

R11 Highly flammable.

R35 Causes severe burns.

R36 Irritating to eyes.

R67 Vapours may cause drowsiness and dizziness.

Department issuing data specification sheet: Product safety department

Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organisation

ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Flam. Liq. 2: Flammable liquids, Hazard Category 2

Flam. Liq. 3: Flammable liquids, Hazard Category 3

Skin Corr. 1A: Skin corrosion/irritation, Hazard Category 1A

Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3