

SAFETY DATA SHEET

GripFactory SaniGrip Hardener

1. IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE COMPANY / ENTERPRISE

1.1 Product identification

Trade name: GripFactory SaniGrip Hardener

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

- Use of the substance or mixture
- 2 component paint
- UV filter Anti-Slip paint
- UV filter

1.3 Details of the supplier of the safety data sheet


GripFactory B.V.
Trasmolenlaan 12
3447 GZ Woerden
The Netherlands
T +31 348 20 3000
E info@gripfactory.nl
W www.gripfactoryantislip.com
KVK nummer: 73.01.42.65
BTW: NL8593.20.856.B01

1.4 Emergency telephone number


N.P.I.C.
Only for professional helpers in case of emergencies
T +31 348 20 3000

GripFactory B.V.

Trasmolenlaan 12
3447 GZ Woerden
The Netherlands

 +31 (0)348 - 20 30 00

 info@gripfactory.nl

 www.gripfactoryantislip.com

2. HAZARDS IDENTIFICATION


2.1 Classification of the substance or mixture

Hazard statement according to 1272/2008 (GHS)

Hazard class and category	Hazard classes	H number	H sentence
Acute toxicity (inhalative)	4	H332	Harmful by inhalation.
Skin corrosion / irritation	2	H315	Causes skin irritation.
Flammable liquid substances	3	H226	Flammable liquid and vapor.
Skin sensitization	1	H317	May cause an allergic skin reaction.
STOT-single exposure	3	H335	May cause respiratory irritation.

2.2 Label elements

Hazard statement according to 1272/2008 (GHS)

Contains	Aliphatic polyisocyanate homopolymer Hexamethylene 1,6 diisocyanate	
Hazard icons		
Signal word	Warning	
Hazard sentences	H226	Flammable liquid and vapor.
	H332	Harmful by inhalation.
	H315	Causes skin irritation.
	H317	May cause an allergic skin reaction.
	H335	May cause respiratory irritation.
Safety recommendations	P210	Keep away from heat, hot surfaces, sparks, open flames and other sources of ignition. Do not smoke.
	P233	Keep container tightly closed.
	P312	Call a POISON CENTER / doctor / ... if you feel unwell.
	P333+P313	In case of skin irritation or rash: consult a doctor.
	P403+P235	Store in a well-ventilated place. Keep cool.
	P405	Keep locked up.

2.3 Other hazards

X

3. COMPOSITION AND INFORMATION ON INGREDIENTS

3.1 Substances

X

3.2 Mixtures

Hazard statement according to 1272/2008 (GHS)

Chemical Name	CAS	Hazard class and category
ALIFATIC POLYISOCYANATE HOMOPOLYMER	28182-81-2	Acute Tox. 4 ; H332 Skin Sens. 1 ; H317 STOT SE 3 ; H335
2-METHOXY-1-METHYLETHYL ACETATE	108-65-6	Flam. Liq. 3 ; H226
XYLENE	1330-20-7	Flam. Liq. 3 ; H226 Acute Tox. 4 ; H312 Acute Tox. 4 ; H332 Skin Irrit. 2 ; H315
ETHYLBENZENE	100-41-4	Flam. Liq. 2 ; H225 Asp. Tox. 1 ; H304 STOT RE 2 ; H373 Acute Tox. 4 ; H332
HEXAMETHYLENE-1,6-DIISOCYANATE	822-06-0	Acute Tox. 3 ; H331 Resp. Sens. 1 ; H334 Skin Irrit. 2 ; H315 Skin Sens. 1 ; H317 Eye Irrit. 2 ; H319 STOT SE 3 ; H335

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice	In any case of doubt or if symptoms occur, seek medical attention. Never give anything orally to an unconscious person or in the event of cramps.
By inhalation	Remove victim to fresh air and keep warm and at rest. Apply artificial respiration in case of respiratory complaints or respiratory arrest. In case of unconsciousness, bring them to a stable location and consult a doctor.
With skin contact	Take off contaminated or soaked clothing. After contact with skin, wash immediately with plenty of water and soap. Clean with detergents. Avoid solvents.
With eye contact	In the event of contact with eyes, rinse immediately with eyelids open for 10 to 15 minutes with running water and consult an ophthalmologist.
After swallowing	After swallowing, rinse mouth with plenty of water (only if the person is conscious) and seek medical attention immediately. Let it go. DO NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

X

4.3 Indication of the immediate medical attention and special treatment required

X

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

- Alcohol-resistant foam, carbon dioxide (CO₂), powder, sand, water spray
- Unsuitable: hard water jet

5.2 Special hazards arising from the substance or mixture

Fire causes a thick, black smoke. Exposure to decomposition products may cause a health hazard.

5.3 Advice for firefighters

Cool endangered containers in the event of fire with water. Do not allow fire extinguishing water to enter drains or surface waters. Use suitable respiratory protection device.

6. MEASURES IN CASE OF ACCIDENTAL RELEASE OF THE SUBSTANCE OR MIXTURE

6.1 Personal precautions, protective equipment and emergency procedures

- Use personal protective equipment.
- Ensure adequate ventilation.
- Eliminate all possible sources of ignition.

6.2 Environmental precautions

Prevent flows to surface water, sewage, basements and bounded areas.

6.3 Methods and material for containment and cleaning up

Prevent expansion in surface area (for example by damming or oil screens). Absorb with liquid-binding substances (sand, acid binder, universal binder). Clean with detergents. Avoid solvents.

6.4 Reference to other sections

X

7. HANDLING AND STORAGE

7.1 Precautions for safe handling of the substance or mixture

Persons with asthma, allergies, chronic or recurrent respiratory diseases should not be used for work with this product. A regular examination of the lung function should be performed on persons who spray this product. Vapors can spread over large distances and be ignited, ignited, burned or exploded by sources of ignition. Heating leads to pressure increase and bursting hazard. Ensure the grounding of containers, equipment, pumps and extraction systems. Avoid contact with skin and eyes. Avoid breathing dust / particles. Beware of mist production / formation. Do not eat, drink or smoke at the workplace.

Protective measures

Be careful when re-opening broken containers. Keep container dry and tightly closed to prevent contamination and absorption of moisture. Upon contact with water (humidity), CO₂ is created, causing overpressure in closed vessels. Keep container tightly closed in a cool, well-ventilated place. Clothing and footwear must be of a conductive nature. Tools that use sparks must not be used. Never use pressure to empty the container. Always keep the product in containers of the same material as the original container. Follow the recommendations on the label. Store the product away from heat sources and direct sunlight.

7.2 Conditions for safe storage, including any incompatible products

Keep buses tightly closed in a ventilated area. Keep cool. Avoid contact with ignition points. Avoid any contact with oxidizing agents, from highly basic and strongly acidic materials. Remove ignition sources.

7.3 Specific end use

X

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

XYLENE; CAS No : 1330-20-7 The Netherlands

Limit values 210 milligrams per cubic meter Time weighted average over 8 hours, H / 442 milligrams per cubic meter Time weighted average over 15 minutes, H

ETHYLBENZENE; CAS No : 100-41-4 the Netherlands

215 milligrams per cubic meter Time weighted average over 8 hours, H / 430 milligrams per cubic meter Time weighted average over 15 minutes, H

1-METHOXYPROPYL ACETATE-2; CAS No: 108-65-6

550 milligrams per cubic meter Time weighted average over 8 hours

8.2 Exposure controls

Glove	Use chemical resistant gloves that match the conditions of use. The selected protective gloves must comply with standard EN 347 derived from them. Gloves must be thrown away and replaced in the event of signs of degradation or chemical breakthrough.
Glove material	Wear chemical resistant gloves such as: Glove material fluoroelastomer; material thickness 0.4 mm, breakthrough time ≥ 480 min. Gloves must be replaced after 8 hours of wearing.
Eye protection	If contact with the eyes can occur through splashing or spraying of liquid or by contact with airborne particles or vapor, eye protection should be worn such as glasses that protect the eyes from splashing chemicals, and / or face protection.
Body protection	If skin contact may occur, use protective clothing including gloves, an apron, sleeves, boots, and head and face protection. The selected protective clothing must comply with standard EN 13034, which describes clothing with limited splash protection for 8 hours. Choose protective clothing based on the amount and concentration of the hazardous substance in the workplace. Use clothing that is chemically resistant to the product and prevent skin contact.
Industrial hygiene	During work, do not eat and / or smoke. Clean hands after work.
Respiratory protection	Do not breathe abrasive dust.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information about basic physical and chemical properties

Appearance	liquid
Colour	Transparent
Odor	characteristic
Boiling point	63°C
Flash point	24°C
Lower Explosion Limit	1 vol-%
Vapor pressure	1000 hPa (50°C)
Density	0,98 gr/ml (20°C)

9.2 Other information

X

10. STABILITY AND REACTIVITY

10.1 Reactivity

There is no information available.

10.2 Chemical stability

There is no information available.

10.3 Possible dangerous reactions

There is no information available.

10.4 Conditions to avoid

Avoid any contact with oxidizing agents, strongly alkaline and strongly acidic materials to prevent exothermic reactions.

10.5 Chemically incompatible materials

Avoid any contact with oxidizing agents, strongly alkaline and strongly acidic materials to prevent exothermic reactions.

10.6 Hazardous decomposition products

If exposed to high temperatures, hazardous decomposition products may arise, such as carbon monoxide and carbon dioxide, smoke, nitrogen oxides.

11. TOXICOLOGISCHE INFORMATIE

11.1 Informatie over toxicologische effecten LD50 voor Styreen

Acute oral toxicity	<p>Parameter: LD50 (XYLENE; CAS No.: 1330-20-7) Exposure route: Oral Species: Rat Operating dose: 8700 mg/kg Parameter: LD50 (ETHYLBENZENE; CAS No: 100-41-4) Exposure route: Oral Species: Rat Operating dose: 3500 mg/kg Parameter: LD50 (2-METHOXY-1-METHYLETHYL ACETATE; CAS No.: 108-65-6) Exposure route: Oral Species: Rat Operating dose: 8500 mg/kg Parameter: LD50 (HEXAMETHYLENE-1,6-DIISOCYANATE; CAS No.: 822-06-0) Exposure route: Oral Species: Rat Operating dose: 710 mg/kg</p>
Acute dermal toxicity	<p>Parameter: LD50 (XYLENE; CAS No.: 1330-20-7) Exposure route: Dermal Species: Rabbit Operating dose: 2000 mg/kg Parameter: LD50 (ETHYLBENZENE; CAS No: 100-41-4) Exposure route: Dermal Species: Rabbit Operating dose: 5000 mg/kg Parameter: LD50 (HEXAMETHYLENE-1,6-DIISOCYANATE; CAS No.: 822-06-0) Exposure route: Dermal Species: Rabbit Operating dose: 570 mg/kg</p>
Acute inhalative toxicity	<p>Parameter: LC50 (2-METHOXY-1-METHYLETHYL ACETATE; CAS No.: 108-65-6) Exposure route: Inhalation Species: Rat Operating dose: 35.7 mg/l Parameter: LC50 (XYLENE; CAS No.: 1330-20-7) Exposure route: Inhalation Species: Rat Operating dose: 6350 mg/l Parameter: LC50 (HEXAMETHYLENE-1,6-DIISOCYANATE; CAS No.: 822-06-0) Exposure route: Inhalation Species: Mouse Operating dose: 1570 mg/m³</p>

2. ECOLOGICAL INFORMATION

12.1 Toxicity to Styrene

There is no information available.

12.2 Persistence and degradability

There is no information available.

12.3 Bioaccumulation

There is no information available.

12.4 Mobility in the soil

There is no information available.

12.5 Results of PBT and vPvB assessment

There is no information available.

12.6 Other adverse effects

There is no information available.

13. DISPOSAL INSTRUCTIONS

13.1 Waste treatment methods

Contaminated packaging must be completely emptied and can be reused after adequate cleaning. Packaging that cannot be cleaned must be disposed of as waste. Waste treatment according to directive 2008/98/EC including waste and hazardous waste.

14. INFORMATIE MET BETREKKING TOT HET VERVOER

14.1 VN-nummer

1263

14.2 Juiste ladingnaam overeenkomstig de modelreglementen van de VN

VERF

14.3 Transportgevarenklasse(n)

	Land transport ADR / RID	Air transport ICAO-TI and IATA-DGR	Transport by sea ship IMDG
Class	3	3	3
Classification code	F1	F1	F1
Limited and excepted quantities	Limited quantities 5ltr		Limited quantities 5ltr
Indication of the material	UN1263, Paint	UN1263, Paint	UN1263, Paint
Tunnel restriction code	D/E		
Kemler	30		

14.4 Verpakkingsgroep

	Land transport ADR / RID	Air transport ICAO-TI and IATA-DGR	Transport by sea ship IMDG
-	III	III	III

14.5 Environmental hazards

Does not apply.

14.6 Special precautions for the user

- Warning: Flammable liquids
- EMS number F-E, S-E

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Does not apply.

15. REGULATIONS

15.1 Specific safety, health and environmental regulations and legislation for the substance or mixture

Class: 2 (Water-threatening) Classification in accordance with VwVwS

15.2 Chemical safety assessment

There is no information available.

16. OVERIGE INFORMATIE

Afkortingen

ADR	European agreement concerning the international carriage of dangerous goods by road
ASP	Aspiratie
CAS	Chemical Abstracts Service (division of the American Chemical Society)
EINECS	European INventory of Existing Commercial chemical Substances
EMS	Emergency Schedule numbers
EN	European Standardization
GHS	Global Harmonised System
H-sen	Hazard sentence
H226	Flammable liquid and vapor
H332	Harmful by inhalation.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H335	May cause respiratory irritation.
IATA	International Air Transport Association
ICAO	International Civil Aviation Organization
IMDG	International Maritime Code for Dangerous Goods
LD	Lethal Dosis
MARPOL	International Convention for the Prevention of Pollution From Ships
N.P.I.C.	National Poisons Information Center
n/a	Not applicable
P-sen	Precation-sentence
P210	Keep away from heat, hot surfaces, sparks, open flames and other sources of ignition. Do not smoke.
P233	Keep container tightly closed.
P312	Call a POISON CENTER / doctor / ... if you feel unwell.
P332+P313	In the event of skin irritation: consult a doctor.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Keep locked up.
PBT	Persistente, bioaccumulerende én toxische stoffen
REACH	Registration, Evaluation and Authorization of CHemicals
STOT SE	Specific Target Organ Toxicity Single Exposure
STOT RE	Specific target organ toxicity - repeated exposure
VOC	Volatile Organic Compounds
vPvB	Very persistent and very bioaccumulative substances

These data have been provided to the best of our knowledge and should only be considered as general information on safety aspects, without any liability or warranty regarding the use or quality of the product.