

SECTION 1: Identification of the substance/mixture and of the company/undertaking		
1.1. Product identifier		
Product form	: Mixture	
Trade name	: iMPREG Liner GL01/GL13/GL16	
1.2. Relevant identified uses of the su	ubstance or mixture and uses advised against	
1.2.1. Relevant identified uses Use of the substance/mixture	: Fibre glass hose liner for trenchless pipe rehabilitation	
1.2.2. Uses advised against		
No additional information available		
1.3. Details of the supplier of the safe	ety data sheet	
Supplier iMPREG GmbH Eisenbahnstr. 32 P.O. Box 72119 Ammerbuch - Deutschland T +49-7073-300310 - F +49-7073-30031-19 info@impreg.de	Safety Data Sheet info@ubsplus.de	
1.4. Emergency telephone number		
Emergency number	: +49 761 19240 (VIZ Freiburg, 24 h, German & English)	
SECTION 2: Hazards identification	1	
2.1. Classification of the substance or mixture		

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin Irrit. 2	H315
Eye Irrit. 2	H319
Repr. 2	H361
STOT SE 3	H335
STOT RE 1	H372
Aquatic Chronic 3	H412

Full text of H- and EUH-statements: see section 16

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

:

Hazard pictograms (CLP)

	GHS07 GHS08
Signal word (CLP)	: Danger
Hazardous ingredients	: styrene
Hazard statements (CLP)	 H315 - Causes skin irritation. H319 - Causes serious eye irritation. H335 - May cause respiratory irritation. H361 - Suspected of damaging fertility or the unborn child. H372 - Causes damage to organs through prolonged or repeated exposure. H412 - Harmful to aquatic life with long lasting effects.
Precautionary statements (CLP)	 P201 - Obtain special instructions before use. P264 - Wash hands thoroughly after handling. P270 - Do not eat, drink or smoke when using this product. P308+P313 - IF exposed or concerned: Get medical advice/attention. P333+P313 - If skin irritation or rash occurs: Get medical advice/attention. P410+P403 - Protect from sunlight. Store in a well-ventilated place.



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EUH-statements

: EUH208 - Contains phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide. May produce an allergic reaction.

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Comments (on top of composition)

: The content of styrene in the ready-for-use product is presumably considerably under the value given below, which was calculated based on the ratios of the used raw materials.

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
styrene	(CAS-No.) 100-42-5 (EC-No.) 202-851-5 (EC Index-No.) 601-026-00-0 (REACH-no) 01-2119457861-32	<25	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Repr. 2, H361d STOT SE 3, H335 STOT RE 1, H372 Asp. Tox. 1, H304 Aquatic Chronic 3, H412
Diethylhexyl maleate	(CAS-No.) 142-16-5 (EC-No.) 205-524-5 (REACH-no) 01-2119524002-60	<0,4	STOT RE 2, H373 Aquatic Chronic 1, H410
phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	(CAS-No.) 162881-26-7 (EC-No.) 423-340-5 (EC Index-No.) 015-189-00-5 (REACH-no) 01-2119489401-38	<0,3	Skin Sens. 1A, H317 Aquatic Chronic 4, H413

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures			
4.1. Description of first aid measures			
First-aid measures general	: Move the affected person away from the contaminated area. Fresh air, rest. Prevent cooling by covering the victim (no warming up). If unconscious place in recovery position and seek medical advice. Do not give an unconscious person anything to drink. Remove soiled clothing promptly.		
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. If you feel unwell, seek medical advice.		
First-aid measures after skin contact	: Immediately remove contaminated clothing or footwear. Rinse and then wash skin thoroughly with water and soap. If skin irritation or rash occurs: Get medical advice/attention. Do not pull solidified product away from the skin.		
First-aid measures after eye contact	: Wash with plenty of water (during 20 minutes minimum) with eyes wide open after taking off soft contact lenses and immediately take medical advice.		
First-aid measures after ingestion	 Rinse mouth. Do not give an unconscious person anything to drink. Do not induce vomiting. Immediately call a POISON CENTER/doctor. 		
4.2. Most important symptoms and effe	cts, both acute and delayed		
Symptoms/effects after inhalation	: May cause respiratory irritation. hearing organs : Risk of serious damage.		
Symptoms/effects after skin contact	: Causes skin irritation.		
Symptoms/effects after eye contact	: Causes serious eye irritation.		
4.3. Indication of any immediate medica	4.3. Indication of any immediate medical attention and special treatment needed		
Treat symptomatically.			
SECTION 5: Firefighting measures			
5.1. Extinguishing media			
Suitable extinguishing media	: water, carbon dioxide (CO2), powder and foam.		
Unsuitable extinguishing media	: Not known.		



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5.2. Special hazards arising from the su	ibstance or mixture
Fire hazard	: Combustible solids.
Explosion hazard	: Not known.
Hazardous decomposition products in case of fire	: Carbon dioxide. Carbon monoxide.
5.3. Advice for firefighters	
Precautionary measures fire	: If there is a fire close by, use suitable extinguishing agents. Evacuate area.
Firefighting instructions	Do not allow run-off from fire fighting to enter drains or water courses. Do not contaminate ground and surface water.
Protection during firefighting	: Extra personal protection: complete protective clothing including self-contained breathing apparatus.
SECTION 6: Accidental release mea	sures
6.1. Personal precautions, protective ed	quipment and emergency procedures
General measures	: Evacuate the danger area. Keep public away from danger area. Mark the danger area.
6.1.1. For non-emergency personnel	
Protective equipment	: Wear personal protective equipment.
6.1.2. For emergency responders	
Protective equipment	: Wear personal protective equipment. Breathing apparatus.
6.2. Environmental precautions	
Prevent entry to sewers and public waters.	
6.3. Methods and material for containm	ent and cleaning up
For containment	: Dike and contain spill. Let solidify. Place in a suitable container for disposal in accordance with the waste regulations (see Section 13).
Methods for cleaning up	: Leave the product to solidify. Mechanically recover the product.
6.4. Reference to other sections	
Measures against fire. SECTION 5. Personal pr	otective equipment. SECTION 8. Disposal considerations. SECTION 13.
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Additional hazards when processed	Not to be used for any purpose other than the one the product was designed for. When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.
Hygiene measures	: Keep away from food, drink and animal feeding stuffs. Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with soap and water before leaving work. Apply emollient cream.
7.2. Conditions for safe storage, includ	ing any incompatibilities
Technical measures	: Use only in well ventilated areas.
Storage conditions	: Store in a dry, cool and well-ventilated place. Protect from sunlight.
Storage temperature	: 5 – 25 °C
Heat and ignition sources	: Store away from direct sunlight or other heat sources.
Special rules on packaging	: Keep in original containers.
7.3. Specific end use(s)	
No additional information available	
SECTION 8: Exposure controls/pers	sonal protection
8.1. Control parameters	

styrene (100-42-5)		
EU	Local name	Styrene
EU	Notes	(Ongoing)

styrene (100-42-5)	
DNEL/DMEL (Workers)	
Acute - systemic effects, inhalation	289 mg/m ³
Acute - local effects, inhalation	306 mg/m ³
Long-term - systemic effects, dermal	406 mg/kg bw/d
Long-term - systemic effects, inhalation	85 mg/m ³



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styrene (100-42-5)		
DNEL/DMEL (General population)		
Acute - systemic effects, inhalation	174.25 mg/m ³	
Acute - local effects, inhalation	182.75 mg/m ³	
Long-term - systemic effects,oral	2.1 mg/kg bw/d	
Long-term - systemic effects, inhalation	10.2 mg/m ³	
Long-term - systemic effects, dermal	343 mg/kg bw/d	
PNEC (Water)		
PNEC aqua (freshwater)	0.028 mg/l	
PNEC aqua (marine water)	0.014 mg/l	
PNEC aqua (intermittent, freshwater)	0.04 mg/l	
PNEC (Sediment)		
PNEC sediment (freshwater)	0.614 mg/kg dwt	
PNEC sediment (marine water)	0.307 mg/kg dwt	
PNEC (Soil)		
PNEC soil	0.2 mg/kg dwt	
PNEC (STP)		
PNEC sewage treatment plant	5 mg/l	
8.2. Exposure controls		
Appropriate engineering controls	: Ensure good ventilation of the work station.	
Materials for protective clothing	: Wear proper protective equipment	
Hand protection	: In case of contact with the skin : Chemically resistant protective gloves. Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer. Penetration time of glove material : >480 min (EN 374). Material : Nitrile rubber : 0,7 mm	
Eye protection	: Direct eye contact is unlikely. In case of contact with the eyes : Safety glasses	
Respiratory protection	 Not necessary with sufficient ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Breathing apparatus with filter. Filter type: A (DIN EN 14387). Appropriate self-contained breathing apparatus may be required 	
Environmental exposure controls	: Avoid release to the environment.	
Other information	: Do not inhale vapour. Personal protective equipment should be chosen according to the CEN standards and in discussion with the supplier of the protective equipment.	
SECTION 9: Physical and chemica	al properties	
9.1. Information on basic physical and chemical properties		
Physical state	: Solid	
Colour	: light yellow	
Odour	: Styrene	
Odour threshold	: No data available	

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Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: Not determined
Freezing point	: No data available
Boiling point	: Not determined
Flash point	: Not applicable
Auto-ignition temperature	: Not determined
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not classified (UN N.1)
Vapour pressure	: Not determined
Relative vapour density at 20 °C	: No data available
Relative density	: No data available

pН

: Not determined



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Density	: ca. 1.1 g/cm ³
Solubility	: Soluble in water with difficulty.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: > 350000 mPa·s
Explosive properties	: Not known.
Oxidising properties	: Not known.
Explosive limits	: No data available
9.2. Other information No additional information available	
SECTION 10: Stability and reactivity 10.1. Reactivity	
No additional information available	
10.2. Chemical stability May polymerise. Image: Chemical stability	
10.3. Possibility of hazardous reactions	
Polymerisation can occur.	
10.4. Conditions to avoid	
Keep away from heat and direct sunlight.	
10.5. Incompatible materials	
Oxidizing agent.	
10.6. Hazardous decomposition products	
I Inder normal conditions of storade and use ha	zardous decomposition products should not be produced.
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Additional information	: Calculation method Target organ(s) : hearing sense	
styrene (100-42-5)		
LOAEL (oral, rat, 90 days)	2000 mg/kg bodyweight/day	
NOAEL (oral, rat, 90 days)	1000 mg/kg bodyweight/day	
NOAEC, Chronic, Inhalation, rat, systemic	= 0,21 mg/l (104 weeks)	
LOAEC, subacute, Inhalation, rat, systemic	= 500 ppm (6 Hours)	
NOAEC, subacute, Inhalation, rat, systemic	= 150 ppm (6 Hours)	
phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide (162881-26-7)		
NOAEL (oral, rat, 90 days)	1000 mg/kg bodyweight/day	
Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met)	
iMPREG Liner GL01/GL13/GL16		
Viscosity, kinematic	318182 mm²/s	
SECTION 12: Ecological information		
12.1. Toxicity		
	Not classified	
term (acute)	I lawsful to assurble life with laws lasting offerste	
Hazardous to the aquatic environment, long- term (chronic)	Harmful to aquatic life with long lasting effects.	
styrene (100-42-5)		
LC50 - Fish [1]	10 mg/l	
EC50 - Crustacea [1]	4.7 mg/l	
NOEC chronic crustacea	1.01 mg/l (daphnia, 21 d)	
12.2. Persistence and degradability		
iMPREG Liner GL01/GL13/GL16		
Persistence and degradability	Contains non readily biodegradable component(s).	
styrene (100-42-5)		
Persistence and degradability	Readily biodegradable.	
Biodegradation	73.2 % (28 d)	
phenyl bis(2,4,6-trimethylbenzoyl)-phosphine	oxide (162881-26-7)	
Persistence and degradability	Not readily biodegradable.	
Biodegradation	1 % (28 d)	
12.3. Bioaccumulative potential		
iMPREG Liner GL01/GL13/GL16		
Bioaccumulative potential	Not determined.	
styrene (100-42-5)		
Bioconcentration factor (BCF REACH)	13.49	
Partition coefficient n-octanol/water (Log Pow)	3	
Bioaccumulative potential	Low.	
phenyl bis(2,4,6-trimethylbenzoyl)-phosphine	oxide (162881-26-7)	
Bioconcentration factor (BCF REACH)	< 5	
Partition coefficient n-octanol/water (Log Pow)	5.8	
12.4. Mobility in soil		
iMPREG Liner GL01/GL13/GL16		
Ecology - soil	No supplementary information available.	
12.5. Results of PBT and vPvB assessment		
iMPREG Liner GL01/GL13/GL16		
This substance/mixture does not meet the PBT c		
This substance/mixture does not meet the vPvB	criteria of REACH regulation, annex XIII	
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12.6. Other adverse effects No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste)	: This material and its container must be disposed of in a safe way, and as per local legislation.
Waste treatment methods	: Let solidify. In general : Non hazardous waste.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN								
IMDG	IATA	ADN	RID					
14.1. UN number								
Not regulated	Not regulated	Not regulated	Not regulated					
14.2. UN proper shipping name								
Not regulated	Not regulated	Not regulated	Not regulated					
Not regulated	Not regulated	Not regulated	Not regulated					
14.3. Transport hazard class(es)								
Not regulated	Not regulated	Not regulated	Not regulated					
Not regulated	Not regulated	Not regulated	Not regulated					
14.4. Packing group								
Not regulated	Not regulated	Not regulated	Not regulated					
14.5. Environmental hazards								
Not regulated	Not regulated	Not regulated	Not regulated					
No supplementary information available								
	IMDG Not regulated Ing name Not regulated Not regulated Class(es) Not regulated	IMDG IATA Not regulated Not regulated Ig name Image: Comparison of the second seco	IMDG IATA ADN Not regulated Not regulated Not regulated Ig name Image: Comparison of the second of the secon					

14.6. Special precautions for user

Overland transport

Not regulated

Transport by sea

Not regulated

Air transport

Not regulated

Inland waterway transport

Not regulated

Rail transport

Not regulated

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

IBC code

: Not applicable.

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Other information, restriction and prohibition	:	Ozone layer depleting substances: Not subject to Regulation (EC) No 1005/2009. Persistent
regulations		organic pollutants (POPs): Not subject to Regulation (EC) No 850/2004. Export and import of
		dangerous chemicals: Not subject to Regulation (EC) No 649/2012. Control of major-accident
		hazards (COMAH, Seveso III): Not subject to Directive 2012/18/EC.

15.1.2. National regulations

No additional information available



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according to Regulation (EC) No. 1907/2006 (REACH)

15.2. Chemical safety assessment

Not applicable

SECTION 16: Other information

Indication of changes:					
Section	Changed item	Change	Comments		
2	Classification & Labelling	Modified			
3.2	Components	Added			

Full text of H- and EUH-statements:					
Acute Tox. 4 (Inhalation)		Acute toxicity (inhal.), Category 4			
Aquatic Chronic 1		Hazardous to the aquatic environment — Chronic Hazard, Category 1			
Aquatic Chronic 3		Hazardous to the aquatic environment — Chronic Hazard, Category 3			
Aquatic Chronic 4		Hazardous to the aquatic environment — Chronic Hazard, Category 4			
Asp. Tox. 1		Aspiration hazard, Category 1			
Eye Irrit. 2		Serious eye damage/eye irritation, Category 2			
Flam. Liq. 3		Flammable liquids, Category 3			
Repr. 2		Reproductive toxicity, Category 2			
Repr. 2		Reproductive toxicity, Category 2			
Skin Irrit. 2		Skin corrosion/irritation, Category 2			
Skin Sens. 1A		Skin sensitisation, category 1A			
STOT RE 1		Specific target organ toxicity — Repeated exposure, Category 1			
STOT RE 2		Specific target organ toxicity — Repeated exposure, Category 2			
STOT SE 3		Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation			
H226		Flammable liquid and vapour.			
H304		May be fatal if swallowed and enters airways.			
H315		Causes skin irritation.			
H317		May cause an allergic skin reaction.			
H319		Causes serious eye irritation.			
H332		Harmful if inhaled.			
H335		May cause respiratory irritation.			
H361		Suspected of damaging fertility or the unborn child.			
H361d		Suspected of damaging the unborn child.			
H372		Causes damage to organs through prolonged or repeated exposure.			
H373		May cause damage to organs through prolonged or repeated exposure.			
H410		Very toxic to aquatic life with long lasting effects.			
H412		Harmful to aquatic life with long lasting effects.			
H413		May cause long lasting harmful effects to aquatic life.			
EUH208		Contains phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide. May produce an allergic			
		reaction.			
Classification and procedure used to	Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:				
Skin Irrit. 2	H315	Calculation method			
Eye Irrit. 2	H319	Calculation method			
Repr. 2	H361	Calculation method			
STOT SE 3	H335	Calculation method			

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

Calculation method

Calculation method

STOT RE 1

Aquatic Chronic 3

H372

H412