

Seal Guard (up to batch no. 211007/1)

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830
 First edition: 19/05/2000 Last revision: 22/07/2019 Version: 6.1

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

1.1. Product identifier

Product form : Mixture
 Name : Seal Guard (up to batch no. 211007/1)
 Product number : 02.0412.6100

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

1.2.1. Relevant identified uses

Main use category : Industrial use, Professional use
 Use of the substance or preparation : Seal Guard is a very high-grade adhesion promoting primer used to improve the adhesion of a variety of sealants. The product is extremely well suited to use on porous materials and most other surfaces.

1.2.2. Uses advised against

Consumer use, This product requires technical knowledge in order to properly use it. Therefore, it is intended for professional/industrial use only.

1.3. Details of the supplier of the safety data sheet

PCS Innotec International NV
 Schans 4
 BE - 2480 Dessel
 T.: +32 (0) 14 32 60 01
 F.: +32 (0) 14 32 60 12
 hse@innotec.eu

1.4. Emergency telephone number

24h/24h (Telephone advice: English, French, German, Dutch):
 BIG : +32 (0) 14 58 45 45

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) no 1272/2008 (CLP)

Flam. Liq. 3	H226
Repr. 2	H361d
STOT SE 3	H336

Full text of hazard classes and H-statements : see section 16

Adverse physicochemical, human health and environmental effects

No information available

2.2. Label elements

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

Hazard pictograms (CLP) :



Signal word (CLP) :

Warning

Contains :

Toluene; 1-Methoxy-2-propanol

Hazard statements (CLP) :

H226 - Flammable liquid and vapour.
 H336 - May cause drowsiness or dizziness.
 H361d - Suspected of damaging the unborn child.

Seal Guard (up to batch no. 211007/1)

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Precautionary statements (CLP) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P281 - Use personal protective equipment as required.
P308+P313 - IF exposed or concerned: Get medical advice/attention.
P312 - Call a POISON CENTER, a doctor if you feel unwell.
P370+P378 - In case of fire: Use carbon dioxide (CO₂), extinguishing powder, water spray to extinguish.
P403+P235 - Store in a well-ventilated place. Keep cool.

2.3. Other hazards

No information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) no 1272/2008 (CLP)
1-Methoxy-2-propanol	(CAS number) 107-98-2 (EINECS / ELINCS number) 203-539-1 (EC Index-No.) 603-064-00-3 (REACH-no) 01-2116457435-35	77,26	Flam. Liq. 3, H226 STOT SE 3, H336
Toluene	(CAS number) 108-88-3 (EINECS / ELINCS number) 203-625-9 (EC Index-No.) 601-021-00-3 (REACH-no) 01-2119471310-51	8,73	Flam. Liq. 2, H225 Repr. 2, H361d Asp. Tox. 1, H304 STOT RE 2, H373 Skin Irrit. 2, H315 STOT SE 3, H336
Bis[[2,2',2"-nitrilotris[ethanolato]] (1-)-N,O]bis(propan-2-olato)titanium	(CAS number) 36673-16-2 (EINECS / ELINCS number) 253-153-2	1,23	Flam. Liq. 2, H225

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

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice : Get medical advice/attention if you feel unwell.
Inhalation : If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
Skin contact : Wash with plenty of water/...
Eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Ingestion : Rinse mouth. Drink plenty of water. Do NOT induce vomiting.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects : Suspected of damaging the unborn child.
Inhalation : May cause drowsiness or dizziness.

4.3. Indication of any immediate medical attention and special treatment needed

No information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Alcohol resistant foam. Carbon dioxide.
Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Flammable liquid and vapour.
Explosion hazard : May form flammable/explosive vapour-air mixture.
Hazardous decomposition products in case of fire : metallic oxide. Carbon monoxide. Carbon dioxide. Nitrogen oxides.

5.3. Advice for firefighters

Firefighting instructions : Prevent fire fighting water from entering the environment. Use water spray or fog for cooling exposed containers.
Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

Seal Guard (up to batch no. 211007/1)

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Wear suitable protective clothing. Keep upwind.

6.1.1. For non-emergency personnel

Protective equipment : Refer to protective measures listed in sections 7 and 8.

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Do not flush with aqueous cleansing agents. This product and its container must be disposed of in a safe way, and as per local legislation.

Other information : Ensure adequate ventilation.

6.4. Reference to other sections

Stable in handling and storage conditions as recommended in section 7. Concerning personal protective equipment to use, see section 8.

Concerning disposal elimination after cleaning: see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Use personal protective equipment as required. Do not eat, drink or smoke when using this product. Provide good ventilation in process area to prevent formation of vapour. Take precautionary measures against static discharge. Eliminate all ignition sources if safe to do so.

Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Proper grounding procedures to avoid static electricity should be followed.

Storage conditions : Protect from sunlight. Store in a well-ventilated place. Do not expose to temperatures exceeding 50 °C. Store in a dry place. Keep in fireproof place. No smoking. Keep away from ignition sources.

Technical condition(s) : Impermeable underground / retention basin. Store in a well-ventilated place. Protect against frost.

Special rules on packaging : Keep container tightly closed and dry. Keep only in original container.

7.3. Specific end use(s)

No information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

1-Methoxy-2-propanol (107-98-2)

EU - Indicative Occupational Exposure Limit (IOEL)

Local name	1-Methoxypropanol-2
IOEL TWA	375 mg/m ³
IOEL TWA [ppm]	100 ppm
IOEL STEL	568 mg/m ³
IOEL STEL [ppm]	150 ppm
Notes	Skin
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC

Belgium - Occupational Exposure Limits

Local name	1-Méthoxy-2-propanol
OEL TWA	375 mg/m ³
OEL TWA [ppm]	100 ppm
OEL STEL	568 mg/m ³
OEL STEL [ppm]	150 ppm
Remark (BE)	D

Seal Guard (up to batch no. 211007/1)

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Regulatory reference	Koninklijk besluit/Arrêté royal 21/01/2020
----------------------	--

Toluene (108-88-3)

EU - Indicative Occupational Exposure Limit (IOEL)

Local name	Toluène
IOEL TWA	192 mg/m ³
IOEL TWA [ppm]	50 ppm
IOEL STEL	384 mg/m ³
IOEL STEL [ppm]	100 ppm
Notes	Peau

Belgium - Occupational Exposure Limits

Local name	Toluène
OEL TWA	77 mg/m ³
OEL TWA [ppm]	20 ppm
OEL STEL	384 mg/m ³
OEL STEL [ppm]	100 ppm
Remark (BE)	D

1-Methoxy-2-propanol (107-98-2)

DNEL/DMEL (Workers)

Acute - systemic effects, dermal	183 mg/kg bodyweight/day
Acute - local effects, inhalation	553,5 mg/m ³
Long-term - systemic effects, dermal	183 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	369 mg/m ³

DNEL/DMEL (General population)

Long-term - systemic effects, oral	33 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	43,9 mg/m ³
Long-term - systemic effects, dermal	78 mg/kg bodyweight/day

PNEC (Water)

PNEC aqua (freshwater)	10 mg/l
PNEC aqua (marine water)	1 mg/l
PNEC aqua (intermittent, freshwater)	100 mg/l

PNEC (Sediment)

PNEC sediment (freshwater)	52,3 mg/kg dwt
PNEC sediment (marine water)	5,2 mg/kg dwt

PNEC (Soil)

PNEC soil	4,59 mg/kg dwt
-----------	----------------

PNEC (STP)

PNEC sewage treatment plant	100 mg/l
-----------------------------	----------

Toluene (108-88-3)

DNEL/DMEL (Workers)

Acute - systemic effects, inhalation	384 mg/m ³
Acute - local effects, inhalation	384 mg/m ³
Long-term - systemic effects, dermal	384 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	192 mg/m ³

Seal Guard (up to batch no. 211007/1)

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Long-term - local effects, inhalation	192 mg/m ³
DNEL/DMEL (General population)	
Acute - systemic effects, inhalation	226 mg/m ³
Acute - local effects, inhalation	226 mg/m ³
Long-term - systemic effects, oral	8,13 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	56,5 mg/m ³
Long-term - systemic effects, dermal	226 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	0,68 mg/l
PNEC aqua (marine water)	0,68 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	16,39 mg/kg dwt
PNEC sediment (marine water)	16,39 mg/l
PNEC (Soil)	
PNEC soil	2,89 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	13,61 mg/l

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Personal protective equipment:

In case of inadequate ventilation wear respiratory protection. Gloves. Safety glasses.

Hand protection:

Where hand contact with the product may occur, the use of gloves (approved according to the EN374 standard) made from the following materials may provide suitable chemical protection: Nitrile rubber, Butyl rubber, rubber gloves. For continuous contact we recommend gloves with breakthrough time of more than 240 minutes with preference for > 480 minutes. For short-term/splash protection we recommend the same, but recognise that suitable gloves offering this level of protection may not be available. In this case a lower breakthrough time may be acceptable as long as appropriate glove maintenance and replacement regimes are rigorously followed. Glove thickness is not a good predictor of glove resistance to a chemical as it is dependent on the exact composition of the glove material. Depending on model and material, glove thickness generally should be greater than 0,35 mm. Suitability and durability of a glove is dependent on usage (= frequency and duration of contact), chemical resistance of glove material, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly.

Eye protection:

In case of splash hazard: safety glasses

Skin protection:

Wear suitable protective clothing.

Respiratory protection:

Wear appropriate breathing apparatus if air renewal not sufficient to maintain dust/vapour under TLV. Recommended: filter for organic vapours (type A).

Personal protective equipment symbol(s):



Seal Guard (up to batch no. 211007/1)

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Liquid.
Colour	: Colourless.
Odour	: characteristic.
Odour threshold	: No data available
pH	: No data available
Evaporation rate	: No data available
Melting point/melting range	: No data available
Freezing point	: No data available
Boiling point/range	: 111 °C
Flash point	: 28 °C
Auto-ignition temperature	: Not self-igniting
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Vapour density	: No data available
Relative density (water = 1)	: 0,93 (20 °C)
Solubility	: Water: Not miscible or difficult to mix.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: 5 mm ² /s (Dynamic, 20 °C)
Viscosity, dynamic	: 5 mPa·s (Dynamic, 20°C)
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: 1,8 – 13,1 vol %

9.2. Other information

V.O.C. (V.O.S.) : 809,1 g/l

SECTION 10: Stability and reactivity

10.1. Reactivity

Flammable liquid and vapour. In use, may form flammable/explosive vapour-air mixture.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No information available

10.4. Conditions to avoid

No information available

10.5. Incompatible materials

Oxidizing agent.

10.6. Hazardous decomposition products

CO. CO₂. NO_x.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

1-Methoxy-2-propanol (107-98-2)

LD50/oral/rat	5660 mg/kg
LD50/dermal/rabbit	13000 mg/kg
LC50/inhalation/4h/rat	54,6 mg/l

Toluene (108-88-3)

LD50/oral/rat	5580 mg/kg
LD50 dermal rat	12124 mg/kg

Seal Guard (up to batch no. 211007/1)

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

LD50/dermal/rabbit	12400 mg/kg
LC50/inhalation/4h/rat	28,1 mg/l

Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Suspected of damaging the unborn child.
STOT-single exposure	: May cause drowsiness or dizziness.
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

Seal Guard (up to batch no. 211007/1)

Viscosity, kinematic	5 mm ² /s (Dynamic, 20 °C)
----------------------	---------------------------------------

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: Not classified

1-Methoxy-2-propanol (107-98-2)

EC50/48h/daphnia magna	23300 mg/l
------------------------	------------

Toluene (108-88-3)

EC50/48h/daphnia magna	3,78 mg/l
------------------------	-----------

12.2. Persistence and degradability

No information available

12.3. Bioaccumulative potential

No information available

12.4. Mobility in soil

No information available

12.5. Results of PBT and vPvB assessment

No information available

12.6. Other adverse effects

Additional information	: Avoid release to the environment. Danger to drinking water, even if small amounts leak into the subsoil.
------------------------	--

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste)	: Disposal must be done according to official regulations.
Waste / unused products	: Should not be landfilled with household waste. Avoid release to the environment.
European List of Waste (LoW) code	: 08 04 09* - waste adhesives and sealants containing organic solvents or other dangerous substances 15 01 04 - metallic packaging

SECTION 14: Transport information

In accordance with ADR / IMDG

14.1. UN number

UN-No. (ADR)	: UN 1133
UN-No. (IMDG)	: UN 1133

Seal Guard (up to batch no. 211007/1)

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

14.2. UN proper shipping name

Proper Shipping Name (ADR) : ADHESIVES
Proper Shipping Name (IMDG) : ADHESIVES
Transport document description (ADR) : UN 1133 ADHESIVES, 3, III, (D/E)
Transport document description (IMDG) : UN 1133 ADHESIVES, 3, III

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : 3
Danger labels (ADR) : 3



IMDG

Transport hazard class(es) (IMDG) : 3
Danger labels (IMDG) : 3



14.4. Packing group

Packing group (ADR) : III
Packing group (IMDG) : III

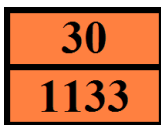
14.5. Environmental hazards

Dangerous for the environment : No
Marine pollutant : No
Further information : No supplementary information available

14.6. Special precautions for user

Overland transport

Classification code (ADR) : F1
Limited quantities (ADR) : 5I
Excepted quantities (ADR) : E1
Transport category (ADR) : 3
Hazard identification number (Kemler No.) : 30
Orange plates :



Tunnel restriction code : D/E

Transport by sea

Limited quantities (IMDG) : 5 L
Excepted quantities (IMDG) : E1
EmS-No. (Fire) : F-E
EmS-No. (Spillage) : S-D

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

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Seal Guard (up to batch no. 211007/1)

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

V.O.C. (V.O.S.)

: 809,1 g/l

15.1.2. National regulations

No information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Abbreviations and acronyms:

	ACGIH = American Conference of Governmental Industrial Hygienists
	ADR = Accord européen sur le transport des marchandises dangereuses par Route
	ATE = Acute Toxicity Estimate
	CAS = Chemical Abstracts Service
	CLP = Classification, labelling and packaging
	CSR = Chemical Safety Report
	DMEL = Derived Minimal Effect Level
	DNEL = Derived No-Effect Level
	DPD = Dangerous Preparation Directive
	DSD = Dangerous Substance Directive
	EINECS/ELINCS = European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances.
	GHS = Globally Harmonized System of Classification and Labelling of Chemicals
	HTP = Haitallisiksi tunnetut pitoisuudet
	IATA = International Air Transport Association
	ICAO = International Civil Aviation Organization
	IMDG = International Maritime Code for Dangerous Goods
	IOELV = Indicative Occupational Exposure Limit Value (EU)
	LC50 = Lethal concentration, 50 percent
	LD50 = Lethal dose, 50 percent
	LEL = Lower Explosion Limit
	MAL-kode = Måleteknisk Arbejdshygienisk Luftbehov
	N.O.S. = Not Otherwise Specified
	MAK = Maximale Arbeitsplatzkonzentrationen
	NDS = Najwyższe Dopuszczalne Stężenie
	NDSCh = Najwyższe Dopuszczalne Stężenie Chwilowe
	OEL = Occupational Exposure Limits
	PBT = Persistent, bioaccumulative and toxic
	PNEC = Predicted No-Effect Concentration
	REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
	RID = Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail).
	STEL = Short term exposure limit
	STOT RE = specific target organ toxicity repeated exposure
	STOT SE = specific target organ toxicity single exposure

Seal Guard (up to batch no. 211007/1)

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

	SVHC = Substance of Very High Concern
	TRGS = Technischen Regeln für Gefahrstoffe
	TLV = Threshold Limit Value
	TWA = time weighted average
	UEL = Upper Explosion Limit
	VLA-EC = valores límite ambientales para la exposición de corta duración
	VLA-ED = valores límite ambientales para la exposición diaria
	VLE = Valeur Limite d'exposition
	VME = Valeur Limite de Moyenne d'exposition
	VOC = Volatile Organic Compounds
	vPvB = very Persistent and very Bioaccumulative
	WGK = Wassergefährdungsklasse

Full text of H- and EUH-statements:	
Asp. Tox. 1	Aspiration hazard, Category 1
Flam. Liq. 2	Flammable liquids, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Repr. 2	Reproductive toxicity, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.

Section(s) changed compared to the previous issue 16

Previous revision 17/03/2016

Disclaimer with regard to REACH:

The information provided in this Safety Data Sheet is consistent with the information in the Chemical Safety Report, as far as this information was available at the time of compilation (see last revision date).

Disclaimer:

The information of this Safety Data Sheet is based on the present state of our knowledge and on current EC and national laws, as the users' working conditions are beyond our knowledge and control. The user is always responsible for ensuring that the requirements of relevant legislation are complied with. The information contained in this Safety Data Sheet provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications. The information provided relates only to the specific product designated and may not be valid for such product used in combination with any other product. The product must not be used for any purposes other than those specified without first obtaining written handling instructions.