

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

Printing date 01.07.2021

Version 1

Revision: 28.06.2021

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier****Trade name: INSEBO Grundierung GP****1.2 Relevant identified uses of the substance or mixture and uses advised against****Application of the substance / the mixture** Primer for silicones and MS sealants**1.3 Details of the supplier of the safety data sheet**

WS INSEBO GmbH

Industriestraße 24, A-2325 Himberg bei Wien

Tel.: +43 (0) 2235/86227-0

Fax: +43 (0) 2235/86020

e-mail: office@insebo.com

1.4 Emergency telephone number: Call local emergency information.**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture****Classification according to Regulation (EC) No 1272/2008**

Flam. Liq. 2	H225	Highly flammable liquid and vapour.
Skin Irrit. 2	H315	Causes skin irritation.
Eye Dam. 1	H318	Causes serious eye damage.
Repr. 2	H361d	Suspected of damaging the unborn child.
STOT SE 3	H336	May cause drowsiness or dizziness.
Asp. Tox. 1	H304	May be fatal if swallowed and enters airways.
Aquatic Chronic 2	H411	Toxic to aquatic life with long lasting effects.

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 GHS05 GHS07 GHS08 GHS09

Signal word Danger**Hazard-determining components of labelling:**alkanes, C7-10-iso-
titanium tetrabutanolate
toluene**Hazard statements**H225 Highly flammable liquid and vapour.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H361d Suspected of damaging the unborn child.
H336 May cause drowsiness or dizziness.
H304 May be fatal if swallowed and enters airways.
H411 Toxic to aquatic life with long lasting effects.**Precautionary statements**P102 Keep out of reach of children.
P201 Obtain special instructions before use.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

(Contd. on page 2)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 01.07.2021

Revision: 28.06.2021

Trade name: INSEBO Grundierung GP

(Contd. of page 1)

P233	Keep container tightly closed.
P261	Avoid breathing vapours/mist.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P302+P352	IF ON SKIN: Wash with plenty of water and soap.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P331	Do NOT induce vomiting.
P391	Collect spillage.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container in accordance with national regulations.

Information concerning particular hazards for human and environment:
Additional information:

The following percentage of the mixture consists of ingredient(s) with unknown hazards to the aquatic environment: 6.7 %.

2.3 Other hazards No further relevant information available.

SECTION 3: Composition/information on ingredients

3.2 Mixtures
Description: Mixture of substances listed below with non-hazardous additions.

Dangerous components:

Dangerous components:		
CAS: 90622-56-3 EINECS: 292-458-5 Reg.nr.: 01-2119471305-42	alkanes, C7-10-iso- Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; STOT SE 3, H336	>75%
CAS: 5593-70-4 EINECS: 227-006-8 Reg.nr.: 01-2119967423-33	titanium tetrabutanolate Flam. Liq. 3, H226; Eye Dam. 1, H318; Skin Irrit. 2, H315; STOT SE 3, H335-H336	<10%
CAS: 108-88-3 EINECS: 203-625-9 Index number: 601-021-00-3 Reg.nr.: 01-2119471310-51	toluene Flam. Liq. 2, H225; Repr. 2, H361d; STOT RE 2, H373; Asp. Tox. 1, H304; Skin Irrit. 2, H315; STOT SE 3, H336	3-5%
CAS: 78-10-4 EINECS: 201-083-8 Index number: 014-005-00-0 Reg.nr.: 01-2119496195-28	tetraethyl silicate Flam. Liq. 3, H226; Acute Tox. 4, H332; Eye Irrit. 2, H319; STOT SE 3, H335	<2%

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

SECTION 4: First aid measures



First aid

4.1 Description of first aid measures
General information:

In case of accident or if you feel unwell seek medical advice (show label where possible).

(Contd. on page 3)

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

Printing date 01.07.2021

Revision: 28.06.2021

Trade name: INSEBO Grundierung GP

(Contd. of page 2)

After inhalation:

Remove casualty from exposure. Supply fresh air.

If respiratory activity is irregular or cessation of breathing appears give artificial respiration.

In case of unconsciousness place patient stably in side position for transportation.

After skin contact:

Remove all contaminated clothing immediately. Drench the affected skin with plenty of soap and water. In case of redness or irritation, consult a doctor.

After eye contact: Rinse opened eyes for at least 15 minutes under running water and consult a doctor.**After swallowing:**

Seek medical treatment and show packing or label.

Do NOT induce vomiting (danger of aspiration).

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed Symptomatic treatment.**SECTION 5: Firefighting measures****5.1 Extinguishing media****Suitable extinguishing agents:** Water fog or fine spray, carbon dioxide, dry chemical powder, foam**For safety reasons unsuitable extinguishing agents:** Water with full jet**5.2 Special hazards arising from the substance or mixture** Heavy soot formation during combustion.**5.3 Advice for firefighters****Protective equipment:** In the case of fire wear self-contained respiratory equipment.**Additional information**

Cool endangered receptacles with water spray. Contain runoff to prevent entry into water or drainage systems.

Dispose of fire debris and contaminated fire fighting water according to the regulations.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

Please notice instructions for person-related safety precautions, wear protective equipment (see 8.)

Keep unprotected persons away.

Avoid breathing vapour or mist.

Avoid contact with skin and eyes.

6.2 Environmental precautions:

Do not allow to enter sewers/ surface or ground water.

Contain the spilled material by bunding.

Advise water authority in case of seepage into water course or sewage system.

6.3 Methods and material for containment and cleaning up:

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

In case of release of large quantities pump out the product.

Place into suitable and labelled containers for disposal.

Additional information: Remove ignition sources.**6.4 Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

(Contd. on page 4)

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

Printing date 01.07.2021

Revision: 28.06.2021

Trade name: INSEBO Grundierung GP

See section 13 for disposal information.

(Contd. of page 3)

SECTION 7: Handling and storage

7.1 Precautions for safe handling

While handling pay attention to the usually precaution for chemicals.
Comply with instructions for use.
Provide good ventilation/exhaustion at the workplace.
Do not breathe fumes or spray.
Avoid any contact with skin, eyes and clothes.
Wash hands before break and at the end of work.

Information about fire - and explosion protection:



Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Flammable vapors may accumulate and form explosive mixtures with air in containers, process vessels, including partial, empty and uncleaned containers and vessels, or other enclosed spaces.

7.2 Conditions for safe storage, including any incompatibilities

Requirements to be met by storerooms and receptacles:

Store in tightly closed original containers in a cool, well ventilated and dry place.
Prevent any seepage into the ground.

Information about storage in one common storage facility:

Do not store food, beverages and animal feeding stuffs in the storage area.

Further information about storage conditions:

Keep out of the reach of children and domestic animals.
Protect from humidity.

7.3 Specific end use(s) Use only according to instructions.

SECTION 8: Exposure controls/personal protection

Additional information about design of technical facilities:

Provide sufficient ventilation, particularly in closed areas.

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

CAS: 108-88-3 toluene

IOELV (EU)	Short-term value: 384 mg/m ³ , 100 ppm; Long-term value: 192 mg/m ³ , 50 ppm; Skin
MAK (Austria)	Short-term value: 380 mg/m ³ , 100 ppm; Long-term value: 190 mg/m ³ , 50 ppm
AGW (Germany)	Long-term value: 190 mg/m ³ , 50 ppm; 4(II);DFG, EU, H, Y

CAS: 78-10-4 tetraethyl silicate

IOELV (EU)	Long-term value: 44 mg/m ³ , 5 ppm
MAK (Austria)	Short-term value: 88 mg/m ³ , 10 ppm; Long-term value: 44 mg/m ³ , 5 ppm
AGW (Germany)	Long-term value: 12 mg/m ³ , 1.4 ppm; 1(I);AGS

CAS: 71-36-3 butan-1-ol

MAK (Austria)	Short-term value: 600 mg/m ³ , 200 ppm; Long-term value: 150 mg/m ³ , 50 ppm
AGW (Germany)	Long-term value: 310 mg/m ³ , 100 ppm; 1(I);DFG, Y

CAS: 64-17-5 ethanol

MAK (Austria)	Short-term value: 3800 mg/m ³ , 2000 ppm; Long-term value: 1900 mg/m ³ , 1000 ppm
---------------	---------------------------------------------------------------------------------------------------------

(Contd. on page 5)

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

Printing date 01.07.2021

Revision: 28.06.2021

Trade name: INSEBO Grundierung GP

(Contd. of page 4)

AGW (Germany) | Long-term value: 380 mg/m³, 200 ppm; 4(II);DFG, Y**Regulatory information**

IOELV (EU): (EU) 2019/1831

MAK (Austria): GKV 2018, 254. Verordnung, 24.9.2018, Teil II

AGW (Germany): TRGS 900

DNELs:

Tetraethyl silicate (CAS 78-10-4):

Worker, DNEL, long term and acute - systemic effects, dermal 12.1 mg/kg/day

Worker, DNEL, long term and acute - systemic effects, by inhalation 85 mg/m³Worker, DNEL, long term and acute - local effects, by inhalation 85 mg/m³

Consumer, DNEL, long term and acute - systemic effects, dermal 8.4 mg/kg/day

Consumer, DNEL, long term and acute - systemic effects, by inhalation 25 mg/m³Consumer, DNEL, long term and acute - local effects, by inhalation 25 mg/m³**PNECs:**

Tetraethyl silicate (CAS 78-10-4): all values have been derived for the hydrolysis product ethanol:

PNEC freshwater 0.192 mg/l, marine water 0.0192 mg/l

PNEC sediment freshwater 0,18 mg/kg wet weight, marine water 0.018 mg/kg wet weight

PNEC soil 0.05 mg/kg wet weight

PNEC STP 4000 mg/l, PNEC Intermittent release 10 mg/l

Additional information: Based on actual legally binding lists.**8.2 Exposure controls****Personal protective equipment****General protective and hygienic measures:**

Avoid unnecessary contact with the product. Do not eat, drink or smoke at workplace and keep it tidy.

Do not breathe vapours.

Remove contaminated clothing immediately and wash carefully before reuse.

Wash hands before break and at the end of work.

Respiratory protection:

Wear adequate respiratory protection equipment in the case of exceeding the recommended occupational exposure limits:

Respirator with a full-face mask (EN 136), recommended filter type: gas filter type ABEK (EN 14387)

In case of mist, spray or aerosol exposure wear suitable personal respiratory protection: Respirator with a full-face mask (EN 136), recommended Filter type: combined filter type ABEK-P2 (EN 14387).

For long or intense exposure, use a self-contained respiratory protective device (EN 137).

Protection of hands:

Solvent-resistant protective gloves

Wash when contaminated. Dispose of when contaminated inside, when perforated or when contamination outside cannot be removed.

Material of gloves

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

Recommendation:

fluorinated rubber (thickness of the material: > 0.7 mm, breakthrough time: > 480 min)

5-layer laminate of PE and EVOH (4H) (thickness of the material: > 0.062 mm, breakthrough time: > 480 min)

Penetration time of glove material

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

(Contd. on page 6)

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

Printing date 01.07.2021

Revision: 28.06.2021

Trade name: INSEBO Grundierung GP

(Contd. of page 5)

Eye protection:



Tightly sealed goggles

Ensure eye bath is to hand.

Body protection: Protective work clothing

Limitation and supervision of exposure into the environment

Do not allow to enter sewers/ surface or ground water. Inform respective authorities in case of seepage into water course or sewage system.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance:

Form:	Fluid
Colour:	Yellowish
Odour:	Slight
Odour threshold:	No data available

pH: Not applicable

Change in condition

Boiling point/boiling range: 116 - 142 °C (1013 hPa)

Flash point: 3 °C (ISO 13736)

Flammability (solid, gas): No data available.

Ignition temperature: 370 °C (EN 14522)

Decomposition temperature: Not applicable

Auto-ignition temperature: No data available.

Explosive properties: No data available

Explosion limits:

Lower: 0.9 Vol.-%

Upper: 7.0 Vol.-%

Oxidising properties: No data available.

Vapour pressure at 25 °C: 50 hPa (EEC A.4)

Evaporation rate: No data available.

Vapour density: No data available.

Density at 20 °C: 0.76 g/cm³ (1013 ha, DIN 51757)

Relative density at 20 °C: 0.76 (1013 hPa, DIN 51757)

Solubility in / Miscibility with water:

Practically insoluble

Partition coefficient: n-octanol/water: No data available.

Viscosity

Dynamic: 0.76 mPas

Kinematic: 1 mm²/s (DIN 51562)

9.2 Other information

Explosion limits for released ethanol: 3.5 - 15% (V).

(Contd. on page 7)

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

Printing date 01.07.2021

Revision: 28.06.2021

Trade name: INSEBO Grundierung GP

(Contd. of page 6)

SECTION 10: Stability and reactivity**10.1 Reactivity** Stable in standard stocking and use conditions.**10.2 Chemical stability** Stable under recommended storage conditions.**10.3 Possibility of hazardous reactions** No hazardous reactions known if used according to specifications.**10.4 Conditions to avoid** Moisture**10.5 Incompatible materials:** Reacts with acids, water and alkalis. Reaction causes the formation of alcohols.**10.6 Hazardous decomposition products:**

No dangerous decomposition products under normal storage condition are expected.

If stored and handled properly: none known. Under the effect of humidity: n-butanol, ethanol.

SECTION 11: Toxicological information**11.1 Information on toxicological effects****Acute toxicity** Based on available data, the classification criteria are not met.**LD/LC50 values relevant for classification:**

There are no product specific data on toxicology available.

Oral	ATEmix	>5000 mg/kg (-)
------	--------	-----------------

Primary irritant effect:**Skin corrosion/irritation**

Causes skin irritation.

Serious eye damage/irritation

Causes serious eye damage.

Respiratory or skin sensitisation Based on available data, the classification criteria are not met.**Additional toxicological information:**

According to literature aliphatic hydrocarbons are slightly irritating to the skin and mucuous membranes and have a skin drying and narcotic effect. If the lungs are directly affected (e.g. by aspiration), inflammation of the lungs may occur.

Toluene (108-88-3) irritates the mucous membranes, slightly irritates the skin and is narcotic. If the lung tissue is directly affected, inflammation of the lung may occur. Kidney and bone marrow damage were described.

According to documentation n-butanol (71-36-3) is irritating to mucous membranes, slightly irritating to skin, degrades skin, has narcotic effects. Hydrolysis product / impurity.

According to literature, ethanol (67-17-5) irritates the mucous membranes, slightly irritates the skin, degrades the skin, is narcotic and may cause liver damage.

Germ cell mutagenicity Based on available data, the classification criteria are not met.**Carcinogenicity** Based on available data, the classification criteria are not met.**Reproductive toxicity**

Suspected of damaging the unborn child.

STOT-single exposure

May cause drowsiness or dizziness.

STOT-repeated exposure Based on available data, the classification criteria are not met.**Aspiration hazard**

May be fatal if swallowed and enters airways.

SECTION 12: Ecological information**12.1 Toxicity****Aquatic toxicity:** For the product there are no ecotoxicological data available.

(Contd. on page 8)

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

Printing date 01.07.2021

Revision: 28.06.2021

Trade name: INSEBO Grundierung GP

(Contd. of page 7)

12.2 Persistence and degradability No further relevant information available.

12.3 Bioaccumulative potential Bioaccumulation is not expected to occur.

12.4 Mobility in soil No further relevant information available.

12.5 Results of PBT and vPvB assessment Not applicable.

12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods
Recommendation



Do not dispose waste or remains together with domestic waste, do not empty into sink or toilet, hand over to hazardous waste disposers.

European waste catalogue

It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

Uncleaned packaging:

Recommendation:

Completely discharge containers. Containers may be recycled or re-used. Observe local/state/federal regulations.

Packagings that may not be cleansed are to be disposed of in the same manner as the product.

SECTION 14: Transport information

14.1 UN-Number
ADR, IMDG, IATA

UN1993

14.2 UN proper shipping name
ADR

1993 FLAMMABLE LIQUID, N.O.S. (alkanes, C7-10-iso-, titanium tetrabutanolate), ENVIRONMENTALLY HAZARDOUS

IMDG

FLAMMABLE LIQUID, N.O.S. (alkanes, C7-10-iso-, titanium tetrabutanolate), MARINE POLLUTANT

IATA

FLAMMABLE LIQUID, N.O.S. (alkanes, C7-10-iso-, titanium tetrabutanolate)

14.3 Transport hazard class(es)

ADR



Class
Label

3 (F1) Flammable liquids.
3

(Contd. on page 9)

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

Printing date 01.07.2021

Revision: 28.06.2021

Trade name: INSEBO Grundierung GP

(Contd. of page 8)

IMDG



Class 3 Flammable liquids.
Label 3
IATA



Class 3 Flammable liquids.
Label 3

14.4 Packing group
ADR, IMDG, IATA II

14.5 Environmental hazards:
Special marking (ADR): Symbol (fish and tree)

14.6 Special precautions for user Warning: Flammable liquids.
Hazard identification number (Kemler code): 33

14.7 Transport in bulk according to Annex II of
MARPOL and the IBC Code Not applicable.

UN "Model Regulation": UN 1993 FLAMMABLE LIQUID, N.O.S. (ALKANES, C7-10-ISO-, TITANIUM TETRABUTANOLATE), 3, II, ENVIRONMENTALLY HAZARDOUS

SECTION 15: Regulatory information

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

Regulation (EC) No 1907/2006 Annex XVII Conditions of restriction: 3, 48

National regulations: -

Waterhazard class: Water hazard class 2 (Self-assessment): hazardous for water.

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

SECTION 16: Other information

This information is based on our present knowledge. However, this 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.
- H304 May be fatal if swallowed and enters airways.
- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H335 May cause respiratory 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.

(Contd. on page 10)

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

Printing date 01.07.2021

Revision: 28.06.2021

Trade name: INSEBO Grundierung GP

(Contd. of page 9)

H411 Toxic to aquatic life with long lasting effects.

Further information:

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008: Calculation method

Abbreviations and acronyms:

CLP: REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures

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

EINECS: European Inventory of Existing Commercial Chemical Substances

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

WEL: Workplace Exposure Limit

MAK: maximum concentration of a chemical substance in the workplace

IOELV: Indicative Occupational Exposure Limit Values (EU)

AGW: occupational exposure limit

DNEL: Derived No-Effect Level

PNEC: Predicted No-Effect Concentration

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

Flam. Liq. 2: Flammable liquids – Category 2

Flam. Liq. 3: Flammable liquids – Category 3

Acute Tox. 4: Acute toxicity - inhalation – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Repr. 2: Reproductive toxicity – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

Asp. Tox. 1: Aspiration hazard – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

Data compared to the previous version altered Section 1,3,8,9,12,15,16