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

Version number 3 Printing date 03.06.2017 Revision: 03.06.2017

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

- · 1.1 Product identifier
  - · Trade name: Signum Insulating Pen I
- · 1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.
  - · Application of the substance / the mixture Auxiliary for manufacture of dental prothesis
- · 1.3 Details of the supplier of the safety data sheet
  - Manufacturer/Supplier:

Kulzer GmbH

Leipziger Straße 2, 63450 Hanau (Germany)

Tel.: +49 (0)800 4372522

· Informing department: E-Mail: msds@kulzer-dental.com

· 1.4 Emergency telephone number: Emergency CONTACT (24-Hour-Number): +49 (0)6132-84463

#### SECTION 2: Hazards identification

- · 2.1 Classification of the substance or mixture
  - Classification according to Regulation (EC) No 1272/2008

Flam. Lig. 2 H225 Highly flammable liquid and vapour.

Eye Irrit. 2 H319 Causes serious eye irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

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

Xi; Irritant

R36: Irritating to eyes.

F; Highly flammable

R11: Highly flammable.

Vapours may cause drowsiness and dizziness. R67:

· 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. Has a narcotising effect.

· 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



Signal word Danger

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## Trade name: Signum Insulating Pen I

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· Hazard-determining components of labelling:

butanone

· Hazard statements

H225 Highly flammable liquid and vapour. H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

· Precautionary statements

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

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P243 Take precautionary measures against static discharge.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

In case of fire: Use for extinction: CO2, powder or water spray. P370+P378

P403 Store in a well-ventilated place.

· 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: -

· Dangerous com	ponents:	
CAS: 78-93-3	butanone	75-90%
EINECS: 201-159-0	Xi R36; F R11	
	R66-67	
	Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	
CAS: 25086-15-1	Copolymerisat	10-25%
	F Ř11	
	Flam. Liq. 2, H225	

<sup>·</sup> Additional information For the wording of the listed hazard phrases refer to section 16.

#### SECTION 4: First aid measures

- · 4.1 Description of first aid measures
  - After inhalation Supply fresh air; consult doctor in case of symptoms.
  - · 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. Then consult doctor.
- · 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

No further relevant information available.

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## Trade name: Signum Insulating Pen I

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 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

CO2, extinguishing powder or water jet. Fight larger fire with alcohol-resistant foam.

· 5.2 Special hazards arising from the substance or mixture

Can form explosive gas-air mixtures.

Carbon monoxide (ČO)

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

- · 5.3 Advice for firefighters
  - · Protective equipment: No special measures required.
  - · Additional information -

#### SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

- 6.2 Environmental precautions: Prevent material from reaching sewage system, holes and cellars.
- 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (diatomite, universal binders, for small amounts tissues).

· 6.4 Reference to other sections

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

-

#### SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

Keep containers tightly sealed.

Ensure good ventilation/exhaustion at the workplace.

Avoid contact with eyes and skin.

Prevent formation of aerosols.

· Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

- · 7.2 Conditions for safe storage, including any incompatibilities
  - · Storage
    - · Requirements to be met by storerooms and containers: Store in cool location.
    - · Information about storage in one common storage facility: Not required.
    - · Further information about storage conditions:

Store in cool, dry conditions in well sealed containers.

Protect from heat and direct sunlight.

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## Trade name: Signum Insulating Pen I

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· 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 item 7.
- · 8.1 Control parameters
  - · Components with critical values that require monitoring at the workplace:

#### 78-93-3 butanone

WEL Short-term value: 899 mg/m³, 300 ppm Long-term value: 600 mg/m³, 200 ppm

Sk, BMGV

· Ingredients with biological limit values:

#### 78-93-3 butanone

BMGV 70 µmol/L

Medium: urine

Sampling time: post shift Parameter: butan-2-one

· 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

Avoid contact with the eyes.

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:

Not neccessary with efficient local exhaust. If exposition to vapours is possible, use breathing protective mask (filter A).

Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

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

Check protective gloves prior to each use for their proper condition.

recommended

· Material of gloves

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

· For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:

Butyl rubber, BR

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Nitrile rubber, NBR
• Eye protection: Safety glasses
• Body protection: Light weight protective clothing

SECTION 9: Physical and chemical properties		
· 9.1 Information on basic physical and chemical properties · General Information · Appearance:		
Fluid		
· Colour:	Colourless	
· Smell: Type specific		
· Odour threshold: Not determined.		
· pH-value: Not determined.		
· Change in condition · Melting point/Melting range: · Boiling point/Boiling range:	Not determined 79 °C	
· Flash point:	-4 °C	
· Inflammability (solid, gaseous)	Not applicable.	
· Ignition temperature:		
· Decomposition temperature:	Not determined.	
· Self-inflammability:	Product is not selfigniting.	
· Danger of explosion:	Product is not explosive. However, formation of explosivair/vapour mixtures is possible.	
· Critical values for explosion:	Not data unico d	
· Lower: · Upper:	Not determined. Not determined.	
• • • • • • • • • • • • • • • • • • • •		
· Steam pressure at 24 °C: · Density at 20 °C	83 mmHg 0.86 g/cm³	
· Relative density	Not determined.	
· Vapour density	Not determined.	
· Evaporation rate	Not determined.	
· Solubility in / Miscibility with		
· Water:	Not miscible or difficult to mix	
· Partition coefficient (n-octanol/water): Not determined.		
· Viscosity:		
dynamic:	Not determined.	
· kinematic: Not determined.		
9.2 Other information	No further relevant information available.	



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#### SECTION 10: Stability and reactivity

- · 10.1 Reactivity No further relevant information available.
- · 10.2 Chemical stability
  - · Conditions to be avoided: No decomposition if used and stored according to specifications.
- 10.3 Possibility of hazardous reactions No dangerous reactions known
- · 10.4 Conditions to avoid Heat, flames and sparks.
- 10.5 Incompatible materials: No further relevant information available.
- · 10.6 Hazardous decomposition products: Carbon dioxide
  - · Additional information: -

#### 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 that are relevant for classification:

#### 78-93-3 butanone

Oral	LD50	3300 mg/kg (rat)
	LD50	5000 mg/kg (rabbit)
Inhalative	LC50/4 h	40 mg/l (mouse)

- · Primary irritant effect:
  - · Skin corrosion/irritation Based on available data, the classification criteria are not met.
  - · Serious eye damage/irritation Causes serious eye irritation.
- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
  - 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 Based on available data, the classification criteria are not met.
- · STOT-single exposure
- May cause drowsiness or dizziness.
- · STOT-repeated exposure Based on available data, the classification criteria are not met.
- Aspiration hazard Based on available data, the classification criteria are not met.

#### SECTION 12: Ecological information

- · 12.1 Toxicity
  - · Aquatic toxicity: No further relevant information available.
- · 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:
      - 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.

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- · vPvB: Not applicable.
- 12.6 Other adverse effects No further relevant information available.

## SECTION 13: Disposal considerations

- · 13.1 Waste treatment methods
  - · Recommendation

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

- · Uncleaned packagings:
  - · Recommendation: Disposal must be made according to official regulations.

14.1 UN-Number · ADR, IMDG, IATA	UN1993
14.2 UN proper shipping name	
· ADR	1993 FLAMMABLE LIQUID, N.O.S., speci provision 640D (ETHYL METHYL KETON (METHYL ETHYL KETONE), Copolymerisat) FLAMABLE (METHY)
· IMDG	FLAMMABLE LIQUID, N.O.S. (ETHYL METH)
	KEIONE (MEIHYL EIHYL KEIONE
· IATA	Copolymerisat) FLAMMABLE LIQUID, N.O.S. (ETHYL METHY
1010	KETONE (METHYL ETHYL KETONE
	Copolymerisat solution)
14.3 Transport hazard class(es)	
· ADR	
• • • • • • • • • • • • • • • • • • • •	3 (F1) Flammable liquids.
ADR	3 (F1) Flammable liquids. 3
ADR	3 (F1) Flammable liquids. 3
· ADR · Class · Label	3 (F1) Flammable liquids. 3
· ADR · Class · Label	3 (F1) Flammable liquids. 3 3 Flammable liquids.



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· 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, <u>S-E</u>
· 14.7 Transport in bulk according to Annex I Marpol and the IBC Code	<b>II of</b> Not applicable.
· Transport/Additional information:	-
· ADR · Limited quantities (LQ) · Excepted quantities (EQ) · Transport category · Tunnel restriction code	1L Code: E2 Maximum net quantity per inner packagin 30 ml Maximum net quantity per outer packagin 500 ml 2 D/E
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	1L Code: E2 Maximum net quantity per inner packagin 30 ml Maximum net quantity per outer packagin 500 ml
· UN "Model Regulation":	UN1993, FLAMMABLE LIQUID, N.O.S., spec provision 640D (ETHYL METHYL KETON (METHYL ETHYL KETONE), Copolymerisat), 3,

## 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
- · 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. H319 Causes serious eye irritation.

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H336 May cause drowsiness or dizziness.

R11 Highly flammable. R36 Irritating to eyes.

R66 Repeated exposure may cause skin dryness or cracking.

R67 Vapours may cause drowsiness and dizziness.

· Abbreviations and acronyms:

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

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)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Flam. Liq. 2: Flammable liquids – Category 2
Eye Irrit. 2: Serious eye damage/eye irritation – Category 3
\* \* Data compared to the previous version altered.

\* Data compared to the previous version altered.



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Printing date 17.05.2018 Version number 4 Revision: 17.05.2018

## SECTION 1: Identification of the substance/mixture and of the company undertakina

- · 1.1 Product identifier
  - · Trade name: Signum Insulating pen II
- · 1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.
  - · Application of the substance / the mixture Auxiliary for manufacture of dental prothesis
- · 1.3 Details of the supplier of the safety data sheet
  - Manufacturer/Supplier:

Kulzer GmbH

Leipziger Straße 2, 63450 Hanau (Germany)

· Informing department: E-Mail: msds@kulzer-dental.com

· 1.4 Emergency telephone number: Emergency CONTACT (24-Hour-Number): +49 (0)6132-84463

#### SECTION 2: Hazards identification

- · 2.1 Classification of the substance or mixture
  - Classification according to Regulation (EC) No 1272/2008

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

Skin Irrit. 2 H315 Causes skin irritation.

Eve Irrit. 2 H319 Causes serious eye irritation. Repr. 2 H361f Suspected of damaging fertility.

STOT RE 2 H373 May cause damage to the central nervous system through prolonged

or repeated exposure.

H304 May be fatal if swallowed and enters airways. Asp. Tox. 1 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 GHS07 GHS08

- · Signal word Danger
- · Hazard-determining components of labelling:

n-hexane

cvclohexane

Śtoddard solvent

· Hazard statements

H225 Highly flammable liquid and vapour. H315 Causes skin irritation.

H319 Causes serious eye irritation.

H361f Suspected of damaging fertility.

H373 May cause damage to the central nervous system through prolonged or repeated exposure.

H304 May be fatal if swallowed and enters airways.

H411 Toxic to aquatic life with long lasting effects.

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## Trade name: Signum Insulating pen II

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Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P281 Use personal protective equipment as required.

P285 In case of inadequate ventilation wear respiratory protection.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

· 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: -

· Dangerous components:		
CAS: 64742-49-0	Naphtha (petroleum), hydrotreated light	50-75%
	Flam. Liq. 2, H225	
CAS: 110-54-3	n-hexane	25-50%
EINECS: 203-777-6	Flam. Liq. 2, H225; Repr. 2, H361f; STOT RE 2, H373; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; STOT SE 3, H336	
CAS: 110-82-7	cyclohexane	5-10%
EINECS: 203-806-2	Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Irrit. 2, H315; STOT SE 3, H336	
CAS: 8052-41-3	Stoddard solvent	0-5%
EINECS: 232-489-3	Flam. Liq. 3, H226; STOT RE 1, H372; Asp. Tox. 1, H304	
CAS: 68988-56-7	Trimethylsilikat	0-5%
EINECS: 273-530-5	Acute Tox. 4, H332; Eye Irrit. 2, H319; STOT SE 3, H335	

<sup>·</sup> Additional information For the wording of the listed hazard phrases refer to section 16.

#### SECTION 4: First aid measures

- · 4.1 Description of first aid measures
  - After inhalation Supply fresh air; consult doctor in case of symptoms.
  - · After skin contact Instantly wash with water and soap and rinse thoroughly.
  - · 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

No further relevant information available.

 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 CO2, sand, extinguishing powder. Do not use water.
  - For safety reasons unsuitable extinguishing agents Water.

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· 5.2 Special hazards arising from the substance or mixture

Can form explosive gas-air mixtures.

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

- · 5.3 Advice for firefighters
  - Protective equipment: No special measures required.
  - Additional information -

#### SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

6.2 Environmental precautions:

Inform respective authorities in case product reaches water or sewage system.

Prevent material from reaching sewage system, holes and cellars.

6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (diatomite, universal binders, for small amounts tissues). Dispose of contaminated material as waste according to item 13.

Do not flush with water or aqueous cleansing agents

· 6.4 Reference to other sections

No dangerous materials are released.

See Section 7 for information on safe handling See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

## SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

Keep containers tightly sealed.

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

- · 7.2 Conditions for safe storage, including any incompatibilities
  - Storage
    - Requirements to be met by storerooms and containers: Store in cool location.
    - · Information about storage in one common storage facility: Not required.
    - · Further information about storage conditions:

Store in cool, dry conditions in well sealed containers.

· 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 item 7.
- · 8.1 Control parameters
  - · Components with critical values that require monitoring at the workplace:

110-54-3 n-hexane

WEL Long-term value: 72 mg/m<sup>3</sup>, 20 ppm

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#### 110-82-7 cyclohexane

WEL Short-term value: 1050 mg/m³, 300 ppm Long-term value: 350 mg/m³, 100 ppm

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:

Not neccessary with efficient local exhaust. If exposition to vapours is possible, use breathing protective mask (filter A).

#### Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation

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

Use protective gloves, if skin contact cannot be avoided.

Solvent resistant gloves

Check protective gloves prior to each use for their proper condition.

recommended

#### · Material of gloves

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

Value for the permeation: Level ≤ 2

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

· For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:

Butyl rubber, BR Nitrile rubber, NBR

- Eve protection: Tightly sealed safety glasses.
- · Body protection: Light weight protective clothing

#### SECTION 9: Physical and chemical properties

#### · 9.1 Information on basic physical and chemical properties

· General Information

· Appearance:

Form: Liquid on inert carrier material

Colour: Colourless
 Smell: Benzen-like
 Odour threshold: Not determined.

· pH-value: Not determined.

· Change in condition

• Melting point/freezing point: Not determined

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$\cdot$ Initial boiling point and boiling range: 69 ${}^\circ\!$		
· Flash point:	-26 ℃	
· Inflammability (solid, gaseous)	Not applicable.	
· Ignition temperature:	240 ℃	
Decomposition temperature:	Not determined.	
· Self-inflammability:	Product is not selfigniting.	
Explosive properties:	Product is not explosive. However, formation of explosive air/vapour mixtures is possible.	
· Critical values for explosion: · Lower: · Upper:	1,2 Vol % 7,4 Vol %	
· Steam pressure at 20 ℃:	160 hPa	
Density at 20 °C Relative density Vapour density Evaporation rate	0.7 g/cm³ Not determined. Not determined. Not determined.	
Solubility in / Miscibility with Water:	Not miscible or difficult to mix	
· Partition coefficient: n-octanol/water: Not determined.		
· Viscosity: · dynamic: · kinematic at 40 ℃:	Not determined. < 20,5 mm2/s	
· Solvent content:		
Solids content: 9.2 Other information	9.7 % No further relevant information available.	

#### SECTION 10: Stability and reactivity

- · 10.1 Reactivity No further relevant information available.
- · 10.2 Chemical stability
  - Conditions to be avoided: No decomposition if used and stored according to specifications.
- 10.3 Possibility of hazardous reactions No dangerous reactions known 10.4 Conditions to avoid No further relevant information available.
- · 10.5 Incompatible materials: No further relevant information available.
- · 10.6 Hazardous decomposition products: None
  - Additional information:

#### 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 that are relevant for classification:

64742-49-0 Naphtha (petroleum), hydrotreated light

Oral LD50 >6000 mg/kg (rat)

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Dermal	LD50	>3000 mg/kg (rab)	
Inhalative	LC50/4 h	>60 mg/l (rat)	
110-54-3 ו	110-54-3 n-hexane		
Oral	LD50	28710 mg/kg (rat)	
110-82-7	cyclohexa	ne	
Oral	LD50	12705 mg/kg (rat)	
8052-41-3	8052-41-3 Stoddard solvent		
Oral	LD50	>5000 mg/kg (rat)	
Dermal	LD50	>3000 mg/kg (rabbit)	

- · Primary irritant effect:
  - Skin corrosion/irritation

Causes skin irritation.

- · Serious eye damage/irritation Causes serious eye irritation.
- · Respiratory or skin sensitisation

Based on available data, the classification criteria are not met.

- CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
  - 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 fertility.
   STOT-single exposure Based on available data, the classification criteria are not met.
- STOT-repeated exposure

May cause damage to the central nervous system through prolonged or repeated exposure.

Aspiration hazard

May be fatal if swallowed and enters airways.

#### SECTION 12: Ecological information

- · 12.1 Toxicity
  - Aquatic toxicity: No further relevant information available.
- · 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.
  - Ecotoxical effects:
    - Remark: Toxic for fish
  - · Additional ecological information:
    - · General notes:

Do not allow product to reach ground water, water bodies or sewage system, even in small quantities.

Danger to drinking water if even extremely small quantities leak into soil.

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

- · 12.5 Results of PBT and vPvB assessment
  - PBT: Not applicable.
  - · vPvB: Not applicable.
- 12.6 Other adverse effects No further relevant information available.



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## SECTION 13: Disposal considerations

- · 13.1 Waste treatment methods
  - · Recommendation

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

· European waste catalogue

18 01 06\* | chemicals consisting of or containing dangerous substances

· Uncleaned packagings:

· Recommendation: Disposal must be made according to official regulations.

· 14.1 UN-Number	
· ADR, IMDG, IATA	UN1866
· 14.2 UN proper shipping name · ADR	1866 RESIN SOLUTION, special provi 640D
· IMDG, IATA	RESIN SOLUTION
· 14.3 Transport hazard class(es)	
· ADR	
· Class	3 (F1) Flammable liquids.
· Label	3` ′
· IMDG, IATA	
· Class	3 Flammable liquids.
· Label	3
· 14.4 Packing group · ADR, IMDG, IATA	II
14.5 Environmental hazards:	
Marine pollutant:	No Symbol (figh and trac)
Special marking (ADR):	Symbol (fish and tree)
· 14.6 Special precautions for user Kemler Number:	Warning: Flammable liquids.
· Kemier Number: · EMS Number:	33 F-E,S-E
Stowage Category	Р <u>- L, о - L</u> В

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· Transport/Additional information:	
· ADR	
· Limited quantities (LQ)	5L
Excepted quantities (ÉQ)	Code: E2
, , ,	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
· Transport category	2
Tunnel restriction code	D/E
· IMDG	
· Limited quantities (LQ)	5L

Excepted quantities (EQ)

Code: E2

Maximum net quantity per inner

packaging: 30 ml

Maximum net quantity per outer

packaging: 500 ml

UN "Model Regulation": UN 1866 RESIN SOLUTION, SPECIAL

PROVISION 640D. 3. II

## SECTION 15: Regulatory information

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
  - · Directive 2012/18/EU
    - · Qualifying quantity (tonnes) for the application of lower-tier requirements 200 t
    - Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t
    - · REGÚLATION (EĆ) No 1907/2006 ANNEX XVII Conditions of restriction: 3, 57
- 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.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

H361f Suspected of damaging fertility.

H372 Causes damage to organs through prolonged or repeated exposure.

H373 May cause damage to the central nervous system through prolonged or repeated exposure.

H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects.

H411 Toxic to aquatic life with long lasting effects.

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Abbreviations and acronyms:

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)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic

PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Flam. Liq. 2: Flammable liquids – Category 2
Flam. Liq. 3: Flammable liquids – Category 3
Acute Tox. 4: Acute toxicity – Category 4
Skin Irrit. 2: Skin corrosion/irritation – Category 2
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 1: Specific target organ toxicity (repeated exposure) – Category 1
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 1
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

\* Data compared to the previous version altered.