

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

Page 1/7

Printing date 04.06.2018 Revision: 04.06.2018 Version number 6

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

- Product identifier

- Trade name: alphasil® PERFECT ACTIVATOR LIQUID DBTL-free
- **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 Hardener for impression material, medical device.
- 1.3 Details of the supplier of the safety data sheet
- Manufacturer/Supplier: Müller-Omicron GmbH & Co. KG Schlosserstr. 1 51789 Lindlar / Köln GERMANY www.mueller-omicron.de
- Further information obtainable from: Product safety department sds@mueller-omicron.de
- **1.4 Emergency telephone number:** During normal opening times (08:00 a.m. - 05:00 p.m.): +49 (0) 2771 / 3304 - 23

**SECTION 2: Hazards identification** 

- 2.1 Classification of the substance or mixture

- Classification according to Regulation (EC) No 1272/2008

GHS08 health hazard

STOT SE 2 H371 May cause damage to the immune system. Route of exposure: Oral.
 STOT RE 2 H373 May cause damage to the blood through prolonged or repeated exposure. Route of exposure: Oral.

GHS07

Skin Irrit. 2 H315 Causes skin irritation. Skin Sens. 1 H317 May cause an allergic skin reaction.

- 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 Warning
- Hazard-determining components of labelling: Dioctylzinnacetylacetonat (CAS 54068-28-9) Tetrakis(2-butoxyethoxy)silane (CAS 18765-38-3) Dioctylzinndilaurat (CAS 3648-18-8) Aroma Gemisch
- Hazard statements H315 Causes skin irritation.

# Trade name: alphasil® PERFECT ACTIVATOR LIQUID DBTL-free

(Contd. of page 1)

- H317 May cause an allergic skin reaction.
- H371 May cause damage to the immune system. Route of exposure: Oral.
- H373 May cause damage to the blood through prolonged or repeated exposure. Route of exposure: Oral. **Precautionary statements**
- P101 If medical advice is needed, have product container or label at hand.
- P102 Keep out of reach of children.
- P103 Read label before use.
- P260 Do not breathe dust/fume/gas/mist/vapours/spray.
- P280 Wear protective gloves.
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
- P321 Specific treatment (see on this label).
- P405 Store locked up.
- *P501* Dispose of contents/container in accordance with local/regional/national/international regulations.
- 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:** Mixture of substances listed below with nonhazardous additions.
- Dangerous components:

	Tetrakis(2-butoxyethoxy)silane (CAS 18765-38-3)	50-100%
	🚸 STOT RE 2, H373; 🚸 Skin Irrit. 2, H315	
EINECS: 222-883-3	Dioctylzinndilaurat (CAS 3648-18-8)	10-25%
Reg.nr.: 01-2119979527-19-0000	🕹 STOT SE 2, H371	
	Dioctylzinnacetylacetonat (CAS 54068-28-9)	10-25%
	🚸 STOT SE 2, H371; 🚸 Skin Sens. 1, H317	
CAS: 78-10-4	tetraethyl silicate	<i>≥</i> 0.1- <i>≤</i> 2.5%
EINECS: 201-083-8	♦ Flam. Liq. 3, H226; ♦ Acute Tox. 4, H332; Eye Irrit. 2, H319; STOT SE 3, H335	
	Aroma Gemisch	<i>≥</i> 0.1-<0.25%
	Flam. Liq. 3, H226;  Asp. Tox. 1, H304;  Aquatic Acute 1, H400; Aquatic Chronic 1, H410;  Skin Irrit. 2, H315; Skin Sens. 1, H317	

- 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
- General information:

*Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.* 

- After inhalation:
- Supply fresh air and to be sure call for a doctor.

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

- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water.
- After swallowing: If symptoms persist 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.

(Contd. on page 3)

# Trade name: alphasil® PERFECT ACTIVATOR LIQUID DBTL-free

(Contd. of page 2)

## SECTION 5: Firefighting measures

- 5.1 Extinguishing media
- Suitable extinguishing agents:
- CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- 5.3 Advice for firefighters
- Protective equipment: No special measures required.

#### SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Not required.
- 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13.
- 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 disposal information.

## SECTION 7: Handling and storage

- 7.1 Precautions for safe handling No special precautions are necessary if used correctly.
- Information about fire and explosion protection: No special measures required.
- 7.2 Conditions for safe storage, including any incompatibilities
- Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions: None.
- 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

- Additional information about design of technical facilities: No further data; see item 7.

#### - 8.1 Control parameters

- Ingredients with limit values that require monitoring at the workplace: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- Additional information: The lists valid during the making were used as basis.

#### - 8.2 Exposure controls

- Personal protective equipment:
- General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work. Store protective clothing separately. Avoid contact with the skin. Avoid contact with the eyes and skin.
- Respiratory protection: In case of intensive or longer exposure use self-contained respiratory protective device. - Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

# Trade name: alphasil® PERFECT ACTIVATOR LIQUID DBTL-free

(Contd. of page 3) Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

#### - Material of gloves

We recommend protective gloves of Nitril (EN 374) 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 Time of permeation (EN 374): long-term use: < 480 min short-term use: < 30 min The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- Eye protection:



Tightly sealed goggles

# **SECTION 9: Physical and chemical properties**

- General Information - Appearance: Form: Form: Colour: - Odour: - Not determined. - Change in condition Melting point/freezing point: - Undetermined. - Change in condition Melting point/freezing point: - Undetermined. - Flash point: - Product is not selfigniting. - Explosion limits: - Lower: - Not determined. - Vapour pressure: - Not determined. - Vapour pressure: - Not determined. - Vapour pressure: - Not determined. - Vapour density - Not determined. - Vapour density - Not determined. - Solubility in / Miscibility with water: - Not miscible or difficult to mix. - Partition coefficient: n-octanol/water: Not determined. - Viscosity: - Dynamic: - Not determined. - Viscosity: - Dynamic: - Not determined. - Vapour pressure: - Not determined. - Vapour pressure: - Not determined. - Vapour density - Not determined. - Viscosity: - Dynamic: - Not determined. - Not determined. - Vapour pressure: - Not determined. - Vapour density - Not determined. - Vapour density	- 9.1 Information on basic physical and chemical properties		
Form:Fluid RedOdour:RedOdour:CharacteristicOdour threshold:Not determined pH-value:Not determined Change in condition Melting point/freezing point:Undetermined Initial boiling point and boiling range:Undetermined Flash point:>70 °C- Flammability (solid, gas):Not determined Ignition temperature:Not determined Decomposition temperature:Not determined Auto-ignition temperature:Product is not selfigniting Explosive properties:Product does not present an explosion hazard Explosion limits: Lower:Not determined Upper:Not determined Vapour pressure:Not determined Density at 20 °C:1 g/cm³- Relative densityNot determined Vapour densityNot determined Solubility in / Miscibility with water:Not determined Solubility in / Miscibility with water:Not determined Viscosity:Not determined.			
Colour:Red• Odour:Characteristic• Odour threshold:Not determined.• pH-value:Not determined.• Change in condition Melting point/freezing point:Undetermined.• Initial boiling point and boiling range:Undetermined.• Flash point:>70 °C• Flash point:Not applicable.• Ignition temperature:Not determined.• Decomposition temperature:Not determined.• Decomposition temperature:Not determined.• Auto-ignition temperature:Product is not selfigniting.• Explosive properties:Product does not present an explosion hazard.• Explosion limits:Lower: Not determined.• Density at 20 °C:1 g/cm³• Relative densityNot determined.• Vapour pressure:Not determined.• Vapour densityNot determined.• Solubility in / Miscibility with water:Not determined.• Viscosity:Not determined.	- Appearance:		
- Odour:       Characteristic         - Odour threshold:       Not determined.         - pH-value:       Not determined.         - Change in condition       Undetermined.         Melting point/freezing point:       Undetermined.         Initial boiling point and boiling range:       Undetermined.         - Flash point:       >70 °C         - Flash point:       Not applicable.         - Ignition temperature:       Not determined.         - Decomposition temperature:       Not determined.         - Auto-ignition temperature:       Product does not present an explosion hazard.         - Explosive properties:       Product does not present an explosion hazard.         - Explosion limits:       Lower:         Lower:       Not determined.         - Vapour pressure:       Not determined.         - Vapour pressure:       Not determined.         - Vapour pressure:       Not determined.         - Vapour density       Not determined.         - Solubility in / Miscibility	-		
- Odour threshold:Not determined pH-value:Not determined Change in condition Melting point/freezing point:Undetermined.Initial boiling point and boiling range:Undetermined Flash point:>70 °C- Flammability (solid, gas):Not applicable Ignition temperature:Not determined Decomposition temperature:Not determined Auto-ignition temperature:Not determined Explosive properties:Product is not selfigniting Explosion limits: Lower: Upper:Not determined Vapour pressure:Not determined Vapour pressure:Not determined Vapour genssure:Not determined Vapour gensityNot determined Vapour densityNot determined Vapour densityNot determined Solubility in / Miscibility with water:Not miscible or difficult to mix Partition coefficient: n-octanol/water:Not determined Viscosity:Not determined.			
- pH-value:       Not determined.         - Change in condition Melting point/freezing point:       Undetermined.         Initial boiling point and boiling range:       Undetermined.         - Flash point:       >70 °C         - Flammability (solid, gas):       Not applicable.         - Ignition temperature:       Not determined.         - Decomposition temperature:       Not determined.         - Auto-ignition temperature:       Product is not selfigniting.         - Explosive properties:       Product does not present an explosion hazard.         - Explosion limits:       Lower:         Lower:       Not determined.         Upper:       Not determined.         - Vapour pressure:       Not determined.         - Vapour density       Not determined.         - Explosion rate       Not determined.         - Vapour density       Not determined.         - Partition coefficient: n-octanol/water:       Not determined.         - Viscosity:       Not determined.			
- Change in condition Melting point/freezing point:       Undetermined.         - Flash point:       >70 °C         - Flash point:       >70 °C         - Flammability (solid, gas):       Not applicable.         - Ignition temperature:       Not determined.         - Decomposition temperature:       Not determined.         - Auto-ignition temperature:       Product is not selfigniting.         - Explosive properties:       Product does not present an explosion hazard.         - Explosion limits:       Lower:         Lower:       Not determined.         Upper:       Not determined.         - Vapour pressure:       Not determined.         - Vapour pressure:       Not determined.         - Vapour density       Not determined.         - Solubility in / Miscibility with water:       Not miscible or difficult to mix.         - Partition coefficient: n-octanol/water:       Not determined.         - Viscosity:       Viscosity:	- Odour threshold:		
Melting point/freezing point:Undetermined.Initial boiling point and boiling range:Undetermined Flash point:>70 °C- Flammability (solid, gas):Not applicable Ignition temperature:Not determined Decomposition temperature:Not determined Auto-ignition temperature:Product is not selfigniting Explosive properties:Product does not present an explosion hazard Explosion limits:Not determined.Lower:Not determined Vapour pressure:Not determined Density at 20 °C:1 g/cm³- Relative densityNot determined Vapour densityNot determined Vapour densityNot determined Solubility in / Miscibility with water:Not miscible or difficult to mix Partition coefficient: n-octanol/water:Not determined Viscosity:Viscosity:	- pH-value:	Not determined.	
Initial boiling point and boiling range: Undetermined.         - Flash point:       >70 °C         - Flammability (solid, gas):       Not applicable.         - Ignition temperature:       Not determined.         - Decomposition temperature:       Not determined.         - Auto-ignition temperature:       Product is not selfigniting.         - Explosive properties:       Product does not present an explosion hazard.         - Explosion limits:       Lower:         Lower:       Not determined.         - Vapour pressure:       Not determined.         - Density at 20 °C:       1 g/cm³         - Relative density       Not determined.         - Vapour density       Not determined.         - Vapour density       Not determined.         - Vapour density       Not determined.         - Partition coefficient: n-octanol/water:       Not determined.         - Partition coefficient: n-octanol/water:       Not determined.         - Viscosity:       Viscosity:			
- Flash point:       >70 °C         - Flammability (solid, gas):       Not applicable.         - Ignition temperature:       Not determined.         - Decomposition temperature:       Not determined.         - Auto-ignition temperature:       Product is not selfigniting.         - Explosive properties:       Product does not present an explosion hazard.         - Explosion limits:       Lower:         Lower:       Not determined.         - Vapour pressure:       Not determined.         - Density at 20 °C:       1 g/cm³         - Relative density       Not determined.         - Vapour density       Not determined.         - Solubility in / Miscibility with water:       Not miscible or difficult to mix.         - Partition coefficient: n-octanol/water:       Not determined.         - Viscosity:       Viscosity:			
- Flammability (solid, gas):       Not applicable.         - Ignition temperature:       Not determined.         - Decomposition temperature:       Not determined.         - Auto-ignition temperature:       Product is not selfigniting.         - Explosive properties:       Product does not present an explosion hazard.         - Explosion limits:       Lower:         Lower:       Not determined.         Upper:       Not determined.         - Vapour pressure:       Not determined.         - Density at 20 °C:       1 g/cm³         - Relative density       Not determined.         - Vapour density       Not determined.         - Vapour density       Not determined.         - Solubility in / Miscibility with water:       Not miscible or difficult to mix.         - Partition coefficient: n-octanol/water:       Not determined.         - Viscosity:       Viscosity:	Initial boiling point and boiling range	: Undetermined.	
- Ignition temperature:       Not determined.         - Decomposition temperature:       Not determined.         - Auto-ignition temperature:       Product is not selfigniting.         - Explosive properties:       Product does not present an explosion hazard.         - Explosion limits:       Lower:         Lower:       Not determined.         Upper:       Not determined.         - Vapour pressure:       Not determined.         - Relative density       Not determined.         - Vapour density       Not determined.         - Vapour density       Not determined.         - Solubility in / Miscibility with water:       Not miscible or difficult to mix.         - Partition coefficient: n-octanol/water:       Not determined.         - Viscosity:       Viscosity:	- Flash point:	>70 °C	
- Decomposition temperature:       Not determined.         - Auto-ignition temperature:       Product is not selfigniting.         - Explosive properties:       Product does not present an explosion hazard.         - Explosion limits:       Not determined.         Lower:       Not determined.         Upper:       Not determined.         - Vapour pressure:       Not determined.         - Density at 20 °C:       1 g/cm <sup>3</sup> - Relative density       Not determined.         - Vapour density       Not determined.         - Vapour density       Not determined.         - Solubility in / Miscibility with water:       Not miscible or difficult to mix.         - Partition coefficient: n-octanol/water:       Not determined.         - Viscosity:       Viscosity:	- Flammability (solid, gas):	Not applicable.	
- Auto-ignition temperature:       Product is not selfigniting.         - Explosive properties:       Product does not present an explosion hazard.         - Explosion limits:       Not determined.         Lower:       Not determined.         Upper:       Not determined.         - Vapour pressure:       Not determined.         - Density at 20 °C:       1 g/cm³         - Relative density       Not determined.         - Vapour density       Not determined.         - Solubility in / Miscibility with water:       Not miscible or difficult to mix.         - Partition coefficient: n-octanol/water:       Not determined.	- Ignition temperature:	Not determined.	
- Explosive properties:       Product does not present an explosion hazard.         - Explosion limits:       Not determined.         Lower:       Not determined.         Upper:       Not determined.         - Vapour pressure:       Not determined.         - Density at 20 °C:       1 g/cm <sup>3</sup> - Relative density       Not determined.         - Vapour density       Not determined.         - Vapour density       Not determined.         - Solubility in / Miscibility with water:       Not determined.         - Partition coefficient: n-octanol/water:       Not determined.         - Viscosity:       Vot determined.	- Decomposition temperature:	Not determined.	
- Explosion limits:       Not determined.         Lower:       Not determined.         Upper:       Not determined.         - Vapour pressure:       Not determined.         - Density at 20 °C:       1 g/cm³         - Relative density       Not determined.         - Vapour 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:       Viscosity:	- Auto-ignition temperature:	Product is not selfigniting.	
Lower: Upper:Not determined Vapour pressure:Not determined Density at 20 °C:1 g/cm³- Relative densityNot determined Vapour densityNot determined Vapour densityNot determined Evaporation rateNot determined Solubility in / Miscibility with water:Not miscible or difficult to mix Partition coefficient: n-octanol/water:Not determined Viscosity:	- Explosive properties:	Product does not present an explosion hazard.	
Upper:       Not determined.         - Vapour pressure:       Not determined.         - Density at 20 °C:       1 g/cm³         - Relative density       Not determined.         - Vapour density       Not determined.         - Vapour 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:       Viscosity:	- Explosion limits:		
- Vapour pressure:       Not determined.         - Density at 20 °C:       1 g/cm³         - Relative density       Not determined.         - Vapour density       Not determined.         - Vapour 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:       Viscosity:	Lower:		
- Density at 20 °C:       1 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:       Viscosity:	Upper:	Not determined.	
- 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:       Viscosity:	- Vapour pressure:	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:       Viscosity:	- Density at 20 °C:	1 g/cm³	
- Evaporation rate       Not determined.         - Solubility in / Miscibility with water:       Not miscible or difficult to mix.         - Partition coefficient: n-octanol/water:       Not determined.         - Viscosity:       Viscosity:			
Solubility in / Miscibility with water: Not miscible or difficult to mix.      Partition coefficient: n-octanol/water: Not determined.      Viscosity:			
water:       Not miscible or difficult to mix.         - Partition coefficient: n-octanol/water:       Not determined.         - Viscosity:       Not determined.	- Evaporation rate	Not determined.	
- Partition coefficient: n-octanol/water: Not determined. - Viscosity:	- Solubility in / Miscibility with		
- Viscosity:	water:	Not miscible or difficult to mix.	
	- Partition coefficient: n-octanol/water:	Not determined.	
Dynamic: Not determined.	- Viscosity:		
	Dynamic:	Not determined.	

(Contd. on page 5)

# Trade name: alphasil® PERFECT ACTIVATOR LIQUID DBTL-free

	(Contd. of pag	je 4)
Kinematic:	Not determined.	
- Solvent content: VOC (EC)	0.00 %	
Solids content: - 9.2 Other information	0.0 % No further relevant information available.	

# SECTION 10: Stability and reactivity

- 10.1 Reactivity No further relevant information available.

- Thermal decomposition / conditions to be avoided: No decomposition if used 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: No dangerous decomposition products known.

# 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:

Tetrakis(2-butoxyethoxy)silane (CAS 18765-38-3)			
Oral	LD50	>2,000 mg/kg (rat)	
Dermal	LD50	>2,000 mg/kg (rat)	
Dioctylzinndilaurat (CAS 3648-18-8)			
Oral	LD50	6,450 mg/kg (rat)	
Dioctyl	Dioctylzinnacetylacetonat (CAS 54068-28-9)		
Oral	LD50	2,500 mg/kg (rat)	
Dermal	LD50	>2,000 mg/kg (rat)	

#### - Primary irritant effect:

- Skin corrosion/irritation
- Causes skin irritation.
- Serious eye damage/irritation Based on available data, the classification criteria are not met.
- Respiratory or skin sensitisation
- May cause an allergic skin reaction.
- 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 damage to the immune system. Route of exposure: Oral.
- STOT-repeated exposure
- May cause damage to the blood through prolonged or repeated exposure. Route of exposure: Oral.
- 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:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water Do not allow product to reach ground water, water course or sewage system.

<sup>- 10.2</sup> Chemical stability

# Trade name: alphasil® PERFECT ACTIVATOR LIQUID DBTL-free

(Contd. of page 5)

Danger to drinking water if even small quantities leak into the ground.

- 12.5 Results of PBT and vPvB assessment
- PBT: Not applicable.
- 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 together with household garbage. Do not allow product to reach sewage system.

- Uncleaned packaging:

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

SECTION 14: Transport information	
- 14.1 UN-Number - ADR, ADN, IMDG, IATA	Void
- 14.2 UN proper shipping name - ADR, ADN, IMDG, IATA	Void
- 14.3 Transport hazard class(es)	
- ADR, ADN, IMDG, IATA - Class	Void
- 14.4 Packing group - ADR, IMDG, IATA	Void
- 14.5 Environmental hazards: - Marine pollutant:	No
- 14.6 Special precautions for user	Not applicable.
<ul> <li>- 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</li> </ul>	Not applicable.
- UN "Model Regulation":	Void

# SECTION 15: Regulatory information

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

- Named dangerous substances ANNEX I None of the ingredients is listed.
- 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**

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

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.

H371 May cause damage to the immune system. Route of exposure: Oral.

H373 May cause damage to the blood through prolonged or repeated exposure. Route of exposure: Oral. H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

<sup>-</sup> Directive 2012/18/EU

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

Page 7/7

Printing date 04.06.2018 Revision: 04.06.2018 Version number 6

#### Trade name: alphasil® PERFECT ACTIVATOR LIQUID DBTL-free

(Contd. of page 6) - Department issuing SDS: Product safety department - Contact: sds@mueller-omicron.de - 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) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative 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 Skin Sens. 1: Skin sensitisation - Category 1 STOT SE 2: Specific target organ toxicity (single exposure) - 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 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 - Sources

The data for the hazardous ingredients were taken respectively from the last version of Safety Data Sheets of suppliers.

- \* Data compared to the previous version altered.