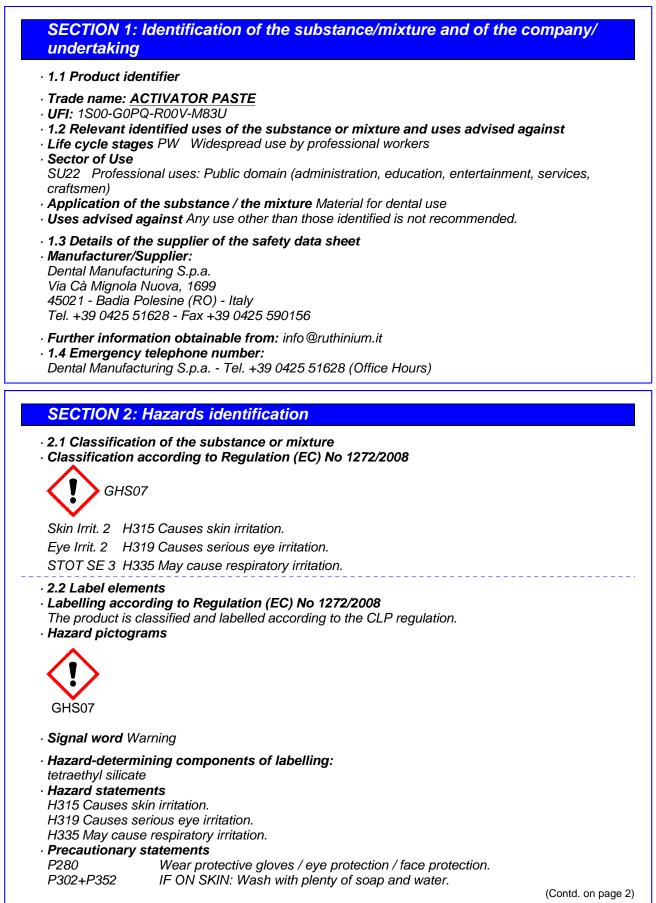


according to 1907/2006/EC, Article 31

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lenses, if p P337+P313 If eye irrita	(Contu S: Rinse cautiously with water for several minutes. Remove c present and easy to do. Continue rinsing. tion persists: Get medical advice/attention. Te the contents do not exceed 125 ml	d. of page 1) contact
GHS07		
 Signal word Warning 		
tetraethyl silicate • Hazard statements Void • 2.3 Other hazards • Results of PBT and vPvB as • PBT: Not applicable. • vPvB: Not applicable.	ssessment	
SECTION 3: Compositi	on/information on ingredients	
• 3.2 Mixtures • Description: Mixture of subst	tances listed below with nonhazardous additions.	
· Dangerous components:		
EINECS: 201-083-8 Index number: 014-005-00-0	tetraethyl silicate Flam. Liq. 3, H226; Acute Tox. 4, H332; Eye Irrit. 2, H319; STOT SE 3, H335 ATE: LC50/4 h inhalative: 10 mg/l	25-35%
	butyltris[(2-ethyl-1-oxohexyl)oxy]stannane Skin Irrit. 2, H315; Aquatic Chronic 4, H413	15-21%

· 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: No special measures required.
- · IF INHALATED: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact:
- Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor. After swallowing:
- Rinse out mouth and then drink plenty of water.

If ingested do not induce vomiting, seek medical assistance showing the safety data sheet or the hazard label

- **4.2** Most important symptoms and effects, both acute and delayed Skin: irritation
- Eyes: irritation
- **4.3 Indication of any immediate medical attention and special treatment needed** No further relevant information available.

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SECTION 5: Firefighting measures

- · 5.1 Extinguishing media
- Suitable extinguishing agents:

Use fire extinguishing methods suitable to surrounding conditions.

- CO2, powder or water spray. Fight larger fires with water spray.
- For safety reasons unsuitable extinguishing agents: Water with full jet
- \cdot 5.2 Special hazards arising from the substance or mixture
- No further relevant information available.
- 5.3 Advice for firefighters
- · Protective equipment:

As in any fire, wear self-contained breathing apparatus and appropriate protective clothing including gloves and eye / face protection.

See Section 8 for information on personal protection equipment.

SECTION 6: Accidental release measures

 6.1 Personal precautions, protective equipment and emergency procedures Wear protective clothing. See Section 8 for information on personal protection equipment.

Wear protective equipment. Keep unprotected persons away.

- · 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- · 6.3 Methods and material for containment and cleaning up:

Dispose contaminated material as waste according to section 13. Ensure adequate ventilation.

• **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** You should follow the usual precautions for handling chemical products Avoid contact with eyes and skin.

- Information about fire and explosion protection: Emergency cooling must be available in case of nearby fire.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: Store only in the original receptacle.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep container tightly sealed.
- 7.3 Specific end use(s) No further data; see section 1.2.

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

· Ingredients with limit values that require monitoring at the workplace:

CAS: 78-10-4 tetraethyl silicate (25-40%)

OEL Long-term value: 44 mg/m³, 5 ppm IOELV

· Regulatory information OEL: 2021 CoP for the Safety, Health and Welfare at Work

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DNELs	(Contd. of page
	10-4 tetraethyl silicate
Dermal	Long term, systemic effect 12.1 mg/kg bw/day (professional workers)
	Long term, systemic effect 85 mg/m3 (professional workers)
PNECs	
	10-4 tetraethyl silicate
	8 mg/kg /peso bagna (fresh water sediments)
	018 mg/kg /peso bagn (marine water sediments)
	192 mg/l (freshwater)
	mg/l (intermittent releases)
	0192 mg/l (marine water)
	000 mg/l (sewage treatment plant)
Additiona	I information: The lists valid during the making were used as basis.
8.2 Expos	sure controls
	ate engineering controls No further data; see section 7.
Individua	I protection measures, such as personal protective equipment
	rotective and hygienic measures:
	y from foodstuffs, beverages and feed.
	ds before breaks and at the end of work.
	tact with the eyes and skin.
	o ry protection: espiratory protective device recommended.
	brief exposure or low pollution use respiratory filter device. In case of intensive or longer
	use self-contained respiratory protective device.
Hand pro	
I	tection
und Luu	
M2	tection
	tection Protective gloves
	tection Protective gloves material has to be impermeable and resistant to the product/ the substance/ the
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Upper:Not determined.Flash point:>62 °CFlash point:>62 °CPHNot applicable.Viscosity:Not applicable.Kinematic viscosityNot applicable.SolubilityInsoluble.Partition coefficient n-octanol/water (logNot determined.Value)Not determined.Value)Not determined.Value)Not determined.Vapour pressure at 20 °C:23 hPaDensity and/or relative density0.98 g/cm³Density at 20 °C:0.98 g/cm³Particle characteristicsSee section 3.92 Other informationNot applicable.Appearance:Particle characteristicsForm:PastyImportant information on protection of health and environment, and on safety.Ignition temperature:Product is not selfigniting.Explosive properties:Product does not present an explosion hazard.Change in conditionVoidExplosivesVoidInformation with regard to physical hazardclassesVoidFlammable gasesVoidCassesVoidFlammable gasesVoidFlammable solidsVoidSelf-reactive substances and mixturesVoidSelf-reactive substances and mixturesVoidSubstances and mixtures, which emitVoidflammable gases in contact with waterVoidSubstances and mixtures, which emitVoidflammable gases in contact with waterVoidOxidising liquids	SECTION 9: Physical and chemical	properties
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according to 1907/2006/EC, Article 31

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Trade name: ACTIVATOR PASTE

- · Corrosive to metals
- · Desensitised explosives

Void Void

SECTION 10: Stability and reactivity

- · 10.1 Reactivity No hazardous reactions when stored and handled according to instructions
- · 10.2 Chemical stability The product is stable under normal conditions of use and storage
- · 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 Excessive variations in temperature, below 0 ° C and above 40 ° C
- · 10.5 Incompatible materials: Avoid contact with acids and oxidants.

· 10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

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

· LD/LC50 values relevant for classification:

CAS: 78-10-4 tetraethyl silicate				
Oral	LD50	6,270 mg/kg (rat)		
Dermal	LD50	6,270 mg/kg (rat) 5,878 mg/kg (rabbit) 10 mg/l (rat) (OECD TG4		
Inhalative	LC50/4 h	10 mg/l (rat) (OECD TG4		

Innalative | LC50/4 h | 10 mg/l (rat) (OECD TG403)
 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.

- 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 respiratory irritation.
- 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.
- · 11.2 Information on other hazards
- · Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:		
CAS: 7	78-10-4 tetraethyl silicate	
CL50	>245 mg/l (fish) (OECD TG 203 esposzione 96 h)	
EC50	100 mg/l (algae) (OECD TG 201 Esposizione 72h)	
	>75 mg/l (daphnia) (OECD TG 202 esposizione 48 h)	
NOEC	>245 mg/l (fish) (OECD TG 203)	
· 12.3 Bi · 12.4 M · 12.5 Ri	ersistence and degradability No further relevant information available. ioaccumulative potential Non significant accumulation in organisms obility in soil No further relevant information available. esults of PBT and vPvB assessment lot applicable.	

· vPvB: Not applicable.

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12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

- · 12.7 Other adverse effects
- · Additional ecological information:
- · General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation

Do not discard the product or its packaging. Do not empty into drains. Recycle the product. When recycling is not possible, dispose through an authorized company in compliance with the local or national regulations. The assignment of the waste code is the user's responsibility, after determining the properties of the waste and the process generating it and after discussing it with the authorities responsible for disposal.

· Uncleaned packaging:

· Recommendation:

Empty the containers before disposal. Do not reuse the emptied containers. Send the empty containers to recycling or to an authorized company in compliance with local and national regulations.

SECTION 14: Transport informa	tion
• 14.1 UN number or ID number • ADR, IMDG, IATA	Void
· 14.2 UN proper shipping name · ADR, 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.
 14.7 Maritime transport in bulk accordi IMO instruments 	ing to Not applicable.
· Transport/Additional information:	Not dangerous according to the above specifications.
· UN "Model Regulation":	Void

SECTION 15: Regulatory information

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

Safety data sheet prepared in accordance with Regulation 1907/2006/EC Article 31, Regulation (EU) No 878/2020 as subsequent amendments.

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Trade name: ACTIVATOR PASTE

- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment Annex II
- None of the ingredients is listed.

· REGULATION (EU) 2019/1148

 Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

· Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

· 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. H315 Causes skin irritation. H319 Causes serious eye irritation. H332 Harmful if inhaled. H335 May cause respiratory irritation. H413 May cause long lasting harmful effects to aquatic life. Classification according to Regulation (EC) No 1272/2008 As required by Regulation 1272/2008/CE art. 9, the classification of this compound is based on the calculation method taken from the data of the single substances therein and from the experimental data of this compound where available (viewable in sections 9, 11 and 12 in this document). Procedure used for the classification of the mixture Skin Irrit. 2, H315 - Calculation method Eye Irrit. 2, H319 - Calculation method STOT SE 3, H335 - Calculation method · Date of previous version: 04.04.2024 Version number of previous version: 3 · Abbreviations and acronvms: ADR: Accord relatif au transport international 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) DNEL: Derived No-Effect Level (REACH) PNEC: Predicted No-Effect Concentration (REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative ATE: Acute toxicity estimate values 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 STOT SE 3: Specific target organ toxicity (single exposure) - Category 3 Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard - Category 4 • * Data compared to the previous version altered.