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

Printing date 06.04.2023

Version number 5 (replaces version 4)

Revision: 06.04.2023

1.1 Product identifier	
• Trade name: Activator Univer	sal Plus Liquid
• ELINCS Number: 477-470-2	
• 1.2 Relevant identified uses of the sub No further relevant information available.	stance or mixture and uses advised against
 Application of the substance / the n 	nixture Activator for dental impression material
• 1.3 Details of the supplier of the safety • Manufacturer/Supplier: Kulzer GmbH Leipziger Straße 2, 63450 Hanau (Ger	
Informing department: E-Mail: msds 1.4 Emergency telephone number: Eme	@kulzer-dental.com ergency CONTACT (24-Hour-Number): +49 (0)6132-8446
SECTION 2: Hazards identificati	
Regulation (EU) 2017/745 (MDR), tha	ding to the GB CLP regulation. vice in the sense of Directive 93/42/EEC (MDD) or to t is intended for the end user and is used invasively or w m the classification and labeling obligation according
 2.2 Label elements Labelling according to Regulation (a Hazard pictograms Void Signal word Void Hazard statements Void 2.3 Other hazards - Results of PBT and vPvB assessmeter PBT: Not applicable. vPvB: Not applicable. 	

• ELINCS Number: 477-470-2

· Description: -

• 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 If skin irritation continues, consult a doctor.

After eye contact

After eye contact Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor. (Contd. on page 2)



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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 Allergic reactions

• 4.3 Indication of any immediate medical attention and special freatment 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. Alcohol-resistant foam For safety reasons unsuitable extinguishing agents Water with a full water jet. 5.2 Special hazards arising from the substance or mixture
- Can form explosive gas-air mixtures. Carbon monoxide (CO) Carbon dioxide (CO2) 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:

- Do not allow to enter drainage system, surface or ground water. Do not allow to enter the ground/soil. Prevent material from reaching sewage system, holes and cellars. 6.3 Methods and material for containment and cleaning up: Collect mechanically. Send for recovery or disposal in suitable containers.
- 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. Keep away from heat and direct sunlight. 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 from heat. Protect against electrostatic charges.

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- · 7.2 Conditions for safe storage, including any incompatibilities · Storage
 - Requirements to be met by storerooms and containers: No special requirements.
 - Information about storage in one common storage facility: Not required.
 - Further information about storage conditions:
 - Store under dry conditions.
 - Store container in a well ventilated position.
 - Protect from heat and direct sunlight.
- 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

- · 8.1 Control parameters
 - Components with critical 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.

Not required.

Additional information: The lists that were valid during the compilation were used as basis.

· 8.2 Exposure controls

Appropriate engineering controls No further data; see section 7.

- Individual protection measures, such as personal protective equipment General protective and hygienic measures
 - Instantly remove any soiled and impregnated garments.

Wash hands during breaks and at the end of the work.

- · Breathing equipment: Not required.
- Hand protection
- Impervious gloves

If skin contact cannot be avoided, protective gloves are recommended to avoid possible sensitization.

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
- Nitrile rubber, NBR
- · Eye/face protection
- Protective goggles are recommended. Tightly sealed safety glasses.

Body protection:

Protective work clothing. Light weight protective clothing

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9.1 Information on basic physical and chemical	properties
· General Information	pi opoi ilioo
· Physical state	Fluid
· Colour:	Red
· Smell:	Aromatic
· Odour threshold:	Not determined.
· Melting point/freezing point:	Not determined
· Boiling point or initial boiling point and	Not determined
boiling range	345 °C
· Flammability	Not applicable.
· Lower and upper explosion limit	Not applicable.
· Lower:	Not determined.
· Upper:	Not determined.
· Flash point:	21 °C (Reaction product of tetraethoxysila alkylated polysilicate, dioctyltin oxide a
	benzoic acid)
Decomposition temperatures	Not determined.
• Decomposition temperature: • SADT	
	Not determined.
· pH	
Viscosity:	Not determined
Kinematic viscosity	Not determined.
· Kinematic viscosity	Not data was in a d
dynamic:	Not determined.
· Solubility	Not minsiple or difficult to min
· Water:	Not miscible or difficult to mix
· Partition coefficient n-octanol/water (log	Niet determeine d
value)	Not determined.
• Steam pressure:	Not determined.
· Vapour pressure:	
· Density and/or relative density	1 0702 c/cm3
Density at 20 °C	1.0723 g/cm ³
Relative density	Not determined.
· Vapour density	Not determined.
9.2 Other information No f	urther relevant information available.
· Appearance:	
Form:	Fluid
 Important information on protection of 	
health and environment, and on safety.	
· Self-inflammability:	Not determined.
• Explosive properties:	Product is not explosive. However, formation
	explosive air/vapour mixtures is possible.
· Water:	10.0 %
· Solids content:	0.0 %
· Change in condition	
· Evaporation rate	Not determined.
Information with regard to physical hazard	
classes	
· Explosives	Void
· Flammable gases	Void
· Aerosols	Void
· Oxidising gases	Void
· Gases under pressure	Void
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· Flammable liquids	Highly flammable liquid and vapour.
· Flammable solids	Void
Self-reactive substances and mixtures	Void
· Pyrophoric liquids	Void
· Pyrophoric solids	Void
Self-heating substances and mixtures	Void
· Substances and mixtures, which emit	
flammable gases in contact with water	Void
· Oxidising liquids	Void
Oxidising solids	Void
Organic peroxides	Void
· Corrosive to metals	Void
· Desensitised explosives	Void

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 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 that are relevant for classification:

Reaction product of tetraethoxysilane, alkylated polysilicate, dioctyltin oxide and benzoic acid

Oral LD50 >2,000 mg/kg (not defined)

- · Skin corrosion/irritation Based on available data, the classification criteria are not met.
- Serious eye damage/irritation Based on available data, the classification criteria are not met.
- 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 Based on available data, the classification criteria are not met.
- 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.
- Additional toxicological information:

Sensitisation Guinea-Pig Maximisation Test (OECD 406): positive

11.2 Information on other hazards

Endocrine disrupting properties

Substance is not listed.

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12.1 Toxicity	
Aquatic toxicity:	
Reaction product of tetraethoxysilane	e, alkylated polysilicate, dioctyltin oxide and benzoic ac
EC50/72h >100 mg/l (algae)	
EC50/48h >100 mg/l (daphnia) (OECD 2	,
 12.2 Persistence and degradability Notes 12.3 Bioaccumulative potential No further relevant 12.4 Mobility in soil No further relevant 12.5 Results of PBT and vPvB assess PBT: Not applicable. vPvB: Not applicable. 12.6 Endocrine disrupting properties For information on endocrine disrupting potential formation on endocrine disrupting potential formation. 12.7 Other adverse effects Additional ecological information: General notes: Avoid transfer into 	ther relevant information available. information available. ment properties see section 11.
SECTION 13: Disposal conside	rations
13.1 Waste treatment methods Recommendation Must not be disposed of together with	h household garbage. Do not allow product to reach sewa
13.1 Waste treatment methods Recommendation	h household garbage. Do not allow product to reach sewa
13.1 Waste treatment methods Recommendation Must not be disposed of together with system.	h household garbage. Do not allow product to reach sewa official regulations. to official regulations.
 13.1 Waste treatment methods Recommendation Must not be disposed of together with system. Disposal must be made according to Uncleaned packagings: Recommendation: Disposal must be made according hor contaminated packagings can 	h household garbage. Do not allow product to reach sewa official regulations. to official regulations. h be used for recycling.
 13.1 Waste treatment methods Recommendation Must not be disposed of together with system. Disposal must be made according to Uncleaned packagings: Recommendation: Disposal must be made according nust be made according non contaminated packagings car SECTION 14: Transport information: 	h household garbage. Do not allow product to reach sewa official regulations. to official regulations. h be used for recycling.
 13.1 Waste treatment methods Recommendation Must not be disposed of together with system. Disposal must be made according to Uncleaned packagings: Recommendation: Disposal must be made according Non contaminated packagings car SECTION 14: Transport information: 14.1 UN number or ID number 	h household garbage. Do not allow product to reach sewa official regulations. In to official regulations. In be used for recycling.



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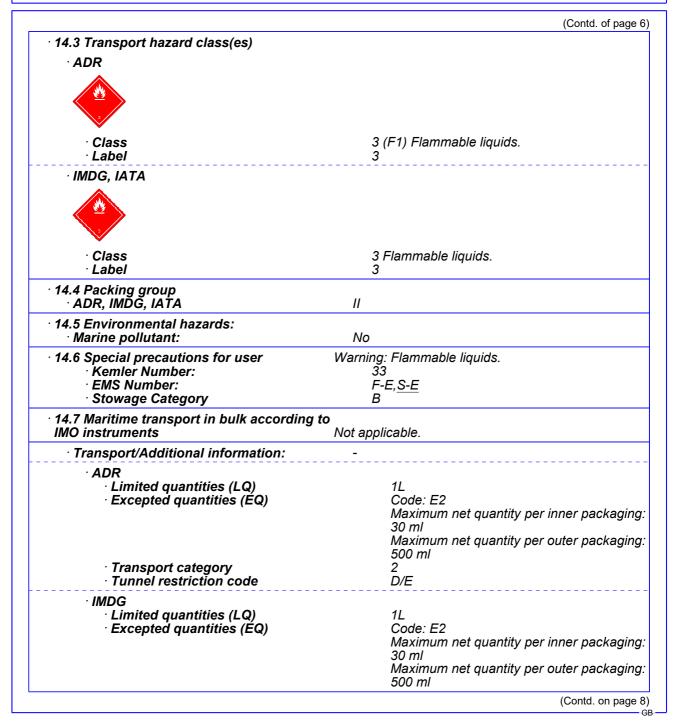
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• UN "Model Regulation":

UN 1993 FLAMMABLE LIQUID, N.O.S., SPECIAL PROVISION 640D (REACTION PRODUCT OF TETRAETHOXYSILANE. ALKYLATED POLYSILICATE, DIOCTYLTIN OXIDE AND BENZOIC ACID), 3, II

SECTION 15: Regulatory information

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

· Directive 2012/18/EU

· Named dangerous substances - ANNEX I Substance is not listed.

Seveso category P5c FLAMMABLE LIQUIDS

• Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 t

Qualifying quantity (tonnes) for the application of upper-tier requirements 50,000 t

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.

Abbreviations and acronyms:

SADT: Self Accelerating Decomposition Temperature 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

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

* Data compared to the previous version altered.