

**Safety Data Sheet**

according to 29 CFR 1910.1200(g)

**VITA AKZENT LC**

Revision date:

Product code: 317

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**1. Identification****Product identifier**

VITA AKZENT LC

**Recommended use of the chemical and restrictions on use****Use of the substance/mixture**

Special finishes Use as laboratory reagent

**Details of the supplier of the safety data sheet**

Company name: VITA Zahnfabrik H.Rauter GmbH &amp; Co.KG

Street: Spitalgasse 3

Place: D-79713 Bad Säckingen

Post-office box: 1338

D-79704 Bad Säckingen

Telephone: +49(0)7761-562-0

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e-mail: info@vita-zahnfabrik.com

Contact person: regulatory affairs

e-mail: info@vita-zahnfabrik.com

Internet: www.vita-zahnfabrik.com

Responsible Department: Regulatory Affairs

**Emergency phone number:**

+49-(0)761-19240

**Further Information**

medical device

**2. Hazard(s) identification****Classification of the chemical****29 CFR Part 1910.1200**

Flammable liquids: Flam. Liq. 2

Skin corrosion/irritation: Skin Irrit. 2

Serious eye damage/eye irritation: Eye Dam. 1

Respiratory or skin sensitization: Skin Sens. 1

Specific target organ toxicity single exposure: STOT SE 3 (respiratory tract irritation)

**Label elements****29 CFR Part 1910.1200****Signal word:**

Danger

**Pictograms:****Hazard statements**

Highly flammable liquid and vapor

Causes skin irritation

May cause an allergic skin reaction

Causes serious eye damage

May cause respiratory irritation

**Precautionary statements**

Wear eye protection/face protection.

Keep container tightly closed.

Keep away from heat. - No Smoking.

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**Hazards not otherwise classified**

No information available.

**3. Composition/information on ingredients****Mixtures****Hazardous components**

CAS No	Components	Quantity
80-62-6	methyl methacrylate	33.47 %
	Hexamethylene diisocyanate polymer with pentaerytriol reaction products with acrylic acid	29.54 %
72869-86-4	7,7,9-Trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecan-1,16-diylbismethacrylat	9.475 %
1245638-61-2	2-Propenoic acid, reaction products with pentaerythritol	8.44 %
84434-11-7	Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinat	4 %
4986-89-4	pentaerythritol tetraacrylate	2.11 %
3524-68-3	pentaerythritol triacrylate	2.11 %
109-16-0	triethylene glycol dimethacrylate	1.895 %
109-16-0	2,2'-ethylenedioxydiethyl dimethacrylate	1.895 %

**4. First-aid measures****Description of first aid measures****After inhalation**

Provide fresh air. When in doubt or if symptoms are observed, get medical advice.

**After contact with skin**

Take off immediately all contaminated clothing and wash it before reuse. After contact with skin, wash immediately with plenty of water and soap. When in doubt or if symptoms are observed, get medical advice.

**After contact with eyes**

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. When in doubt or if symptoms are observed, get medical advice.

**After ingestion**

Rinse mouth immediately and drink plenty of water. IF SWALLOWED: rinse mouth. Do NOT induce vomiting. When in doubt or if symptoms are observed, get medical advice.

**Most important symptoms and effects, both acute and delayed**

No information available.

**Indication of any immediate medical attention and special treatment needed**

Treat symptomatically.

**5. Fire-fighting measures****Extinguishing media****Suitable extinguishing media**Water spray jet, Carbon dioxide (CO<sub>2</sub>), Foam, Extinguishing powder.**Specific hazards arising from the chemical**

Highly flammable. Vapors may form explosive mixtures with air.

**Special protective equipment and precautions for fire-fighters**

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

**Additional information**

Use water spray/stream to protect personnel and to cool endangered containers. Suppress gases/vapors/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or

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surface water.

**6. Accidental release measures****Personal precautions, protective equipment and emergency procedures****General measures**

Remove all sources of ignition. Do not breathe gas/fume/vapor/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

**Environmental precautions**

Do not allow uncontrolled discharge of product into the environment. Danger of explosion

**Methods and material for containment and cleaning up****Other information**

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

**Reference to other sections**

Safe handling: see section 7

Personal protection equipment (PPE): see section 8

Disposal: see section 13

**7. Handling and storage****Precautions for safe handling****Advice on safe handling**

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fume/vapor/spray.

**Advice on protection against fire and explosion**

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Vapors may form explosive mixtures with air.

**Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Keep container tightly closed. Keep locked up. Store in a place accessible by authorized persons only. Provide adequate ventilation as well as local exhaust at critical locations. Keep in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

**Hints on joint storage**

Do not store together with: Oxidizing agent. Pyrophoric or self-heating substances.

**8. Exposure controls/personal protection****Control parameters****Exposure limits**

CAS No.	Substance	ppm	mg/m <sup>3</sup>	f/cc	Category	Origin
80-62-6	Methyl methacrylate	100	410		TWA (8 h)	PEL
		100	410		TWA (8 h)	REL

**Exposure controls**

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**Appropriate engineering controls**

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fume/vapor/spray.

**Protective and hygiene measures**

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

**Eye/face protection**

Suitable eye protection: goggles.

**Hand protection**

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Recommended glove articles KCL Butyl Breakthrough time: 60 min Butyl caoutchouc (butyl rubber) / Breakthrough time: 8 min

**Skin protection**

Wear suitable protective clothing.

**Respiratory protection**

In case of inadequate ventilation wear respiratory protection. Provide adequate ventilation as well as local exhaustion at critical locations.

**9. Physical and chemical properties****Information on basic physical and chemical properties**

Physical state:	Liquid
Color:	
pH-Value:	not determined
<b>Changes in the physical state</b>	
Melting point/freezing point:	not determined
Boiling point or initial boiling point and boiling range:	101 °C
Flash point:	10 °C
<b>Flammability</b>	
Solid/liquid:	not applicable
Gas:	not applicable
Lower explosion limits:	2,1 vol. %
Upper explosion limits:	12,5 vol. %
<b>Self-ignition temperature</b>	
Solid:	not applicable
Gas:	not applicable
Decomposition temperature:	not determined
<b>Oxidizing properties</b>	
Not oxidising.	
Vapor pressure:	not determined
Density (at 20 °C):	1,13 g/cm <sup>3</sup>
Water solubility:	The study does not need to be conducted because the substance is known to be insoluble in water.

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**Solubility in other solvents**

not determined

Partition coefficient n-octanol/water:

not determined

Relative vapour density:

not determined

Evaporation rate:

not determined

**Other information**

Solid content:

not determined

**10. Stability and reactivity****Reactivity**

Highly flammable.

**Chemical stability**

The product is stable under storage at normal ambient temperatures.

**Possibility of hazardous reactions**

No known hazardous reactions.

**Conditions to avoid**

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Vapors may form explosive mixtures with air.

**Incompatible materials**

No information available.

**Hazardous decomposition products**

No known hazardous decomposition products.

**11. Toxicological information****Information on toxicological effects****Acute toxicity**

CAS No	Components				
	Exposure route	Dose	Species	Source	Method
80-62-6	methyl methacrylate				
	dermal	LD50 > 5000 mg/kg			
1245638-61-2	2-Propenoic acid, reaction products with pentaerythritol				
	oral	ATE 500 mg/kg			

Carcinogenicity (IARC): Methyl methacrylate (CAS 80-62-6) is listed in group 3.

**Additional information on tests**

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

**12. Ecological information****Ecotoxicity**

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Persistence and degradability**

The product has not been tested.

**Bioaccumulative potential**

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The product has not been tested.

**Mobility in soil**

The product has not been tested.

**Other adverse effects**

No information available.

**Further information**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

**13. Disposal considerations****Waste treatment methods****Disposal recommendations**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

**Contaminated packaging**

Handle contaminated packages in the same way as the substance itself.

**14. Transport information****Marine transport (IMDG)****UN number:**

UN 1993

**UN proper shipping name:**

FLAMMABLE LIQUID, N.O.S. (methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate; urethanacrylat oligomer)

**Transport hazard class(es):**

3

**Packing group:**

II

Hazard label:

3



Special Provisions:

274

Limited quantity:

1 L

Excepted quantity:

E2

EmS:

F-E, S-E

**Air transport (ICAO-TI/IATA-DGR)****UN number:**

UN 1993

**UN proper shipping name:**

FLAMMABLE LIQUID, N.O.S. (methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate; urethanacrylat oligomer)

**Transport hazard class(es):**

3

**Packing group:**

II

Hazard label:

3



Special Provisions:

A3

Limited quantity Passenger:

1 L

Passenger LQ:

Y341

Excepted quantity:

E2

IATA-packing instructions - Passenger:

353

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IATA-max. quantity - Passenger:	5 L
IATA-packing instructions - Cargo:	364
IATA-max. quantity - Cargo:	60 L

**Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: No

**Special precautions for user**

Warning: Combustible liquid.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

not applicable

**15. Regulatory information****U.S. Regulations****National regulatory information**

SARA Section 304 CERCLA:

Methyl methacrylate (80-62-6): Reportable quantity = 1,000 (454) lbs. (kg)

SARA Section 311/312 Hazards:

Methyl methacrylate (80-62-6): Fire hazard, Immediate (acute) health hazard

Hexamethylene diisocyanate polymer with pentaerythritol reaction products with acrylic acid (-): Immediate (acute) health hazard

7,7,9-Trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecan-1,16-diylbismethacrylat (72869-86-4):

Immediate (acute) health hazard

2-Propenoic acid, reaction products with pentaerythritol (1245638-61-2): Immediate (acute) health hazard

Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinat (84434-11-7): Immediate (acute) health hazard

pentaerythritol tetraacrylate (4986-89-4): Immediate (acute) health hazard

pentaerythritol triacrylate (3524-68-3): Immediate (acute) health hazard

triethylene glycol dimethacrylate (109-16-0): Immediate (acute) health hazard

2,2'-ethylenedioxydiethyl dimethacrylate (109-16-0): Immediate (acute) health hazard

SARA Section 313 Toxic release inventory:

Methyl methacrylate (80-62-6): De minimis limit = 1.0 %, Reportable threshold = Standard

Clean Air Act Section 112(b):

Methyl methacrylate (80-62-6)

**State Regulations****Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65, State of California)**

This product can not expose you to chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

**16. Other information**

Revision date:

Revision No: 1

**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 Harmonized 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

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

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**Other data**

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

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*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*