

658005

Revision: 8/24/2022

Printing date: 24/08/2022

01 Identification of the substance/mixture and of the company/undertaking

- 1.1 Product identifier
- Trade name:
VIASOL EP-C3000AS Komp. B
- Article number:
01300043
- 1.2 Relevant identified uses of the substance or mixture and uses advised against
- Application of the substance / the preparation
Coating material
- 1.3 Details of the supplier of the safety data sheet
- Manufacturer/Supplier:
VIACOR Polymer GmbH
Graf-Bentzel-Str. 78
72108 Rottenburg
- Further information obtainable from:
fone: +49 7472 94999-0 E-mail: info@viacor.de
- 1.4 Emergency telephone number:
CHEMTREC (24 Hours) +1 703-741-5970 / 1-800-424-9300

02 Hazards identification

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



GHS05

- * Skin Corr. 1C - H314 Causes severe skin burns and eye damage.
- * Eye Dam. 1 - H318 Causes serious eye damage.



GHS07

- * Acute Tox. 4 - H302 Harmful if swallowed.
- * Skin Sens. 1 - H317 May cause an allergic skin reaction.
- *



GHS09

- * Aquatic Acute 1 - H400 Very toxic to aquatic life.
- * Aquatic Chronic 2 - H411 Toxic to aquatic life with long lasting effects.
- *

- 2.2 Label elements
- Labelling according to Regulation (EC) No 1272/2008
- Hazard pictograms



GHS05

GHS07



GHS09

- * Signal word
Danger

- Hazard-determining components of labelling:
Carbomonocyclic alkylated mixtures of poly-aza- alkanes, hydrogenated / 3-aminopropyldiethylamine / Benzyl alcohol / 2,2'-iminodiethylamine
- * Hazard statements
H314 Causes severe skin burns and eye damage.
- * H302 Harmful if swallowed.
- * H317 May cause an allergic skin reaction.
- * H400 Very toxic to aquatic life.
- * H411 Toxic to aquatic life with long lasting effects.

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- Precautionary statements
 - P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
 - P260 Do not breathe dusts or mists.
 - P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
- * P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
- * 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.

03 Composition/information on ingredients

- 3.2 Chemical characterization: Mixtures
- Description: Mixture of substances listed below with nonhazardous additions.

• Dangerous components:		%
CAS Number		
1173092-74-4	Carbomonocyclic alkylated mixtures of poly-aza- alkanes, hydrogenated	50-75
*	☞ Skin Corr. 1C - H314, Eye Dam. 1 -	
*	H318; ⚠ Acute Tox. 4 - H302, Skin Sens.	
*	1 - H317; ☞ Aquatic Acute 1 - H400,	
*	Aquatic Chronic 2 - H411	
104-78-9	3-aminopropyl-diethylamine	2,0 - 5,0
*	EC number: 203-236-4	
*	Record number 01-2119965402-39-XXXX	
*	☞ Skin Corr. 1B - H314; ☞ Acute Tox.	
*	3 - H311; ⚠ Flam. Liq. 3 - H226; ⚠	
*	Acute Tox. 4 - H302, Skin Sens. 1 - H317	
100-51-6	Benzyl alcohol	< 3,0
*	EC number: 202-859-9	
*	Record number 01-2119492630-38-XXXX	
*	⚠ Acute Tox. 4 - H302, Acute Tox. 4 -	
*	H332, Eye Irrit. 2 - H319	
111-40-0	2,2'-iminodiethylamine	< 0,5
*	EC number: 203-865-4	
*	Record number 01-2119473793-27-XXXX	
*	☞ Skin Corr. 1B - H314; ☞ Acute Tox.	
*	2 - H330; ⚠ Acute Tox. 4 - H302, Acute	
*	Tox. 4 - H312, Skin Sens. 1 - H317, STOT SE	
*	3 - H335	

- Additional information:
For the wording of the listed risk phrases refer to section 16.

GB

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04 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.
Take affected persons into fresh air and keep quiet.
- After skin contact:
Immediately wash with water and soap and rinse thoroughly.
- After eye contact:
Rinse opened eye for several minutes under running water. Then consult a doctor.
- * • After swallowing:
Do not induce vomiting; call for medical help immediately.
- * • Call for a doctor immediately.
- Information for 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.

05 Firefighting measures

- 5.1 Extinguishing media
- Suitable extinguishing agents:
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
Use fire extinguishing methods suitable to surrounding conditions.
- For safety reasons unsuitable extinguishing agents:
Water with full jet
- 5.2 Special hazards arising from the substance or mixture
No further relevant information available.
- 5.3 Advice for firefighters
- Protective equipment:
Wear self-contained respiratory protective device.

06 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 of seepage into water course or sewage system.
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).
Use neutralising agent.
Dispose contaminated material as waste according to item 13.
- * • Treat with 2 % sodium hydroxide solution.
Ensure adequate ventilation.
- 6.4 Reference to other sections

07 Handling and storage

- Handling:
- * • 7.1 Precautions for safe handling
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
- 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.

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- Information about storage in one common storage facility:
Not required.
- Further information about storage conditions:
Keep container tightly sealed.
Store in cool, dry conditions in well sealed receptacles.
Protect from heat and direct sunlight.
- 7.3 Specific end use(s)
No further relevant information available.

08 Exposure controls/personal protection

- 8.1 Control parameters
 - Ingredients with limit values that require monitoring at the workplace:
- | | | | |
|--------------------------|-------------------------------|--|--------------|
| * 111-40-0 | 2,2'-iminodiethylamine | | |
| * WEL | | | |
| * Long-term value | 4.3 | | mg/m3 |
| * Sk | 1 | | ppm |
- 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
 - Do not inhale gases / fumes / aerosols.
 - Do not inhale dust / smoke / mist.
 - Avoid contact with the eyes.
 - Avoid contact with the eyes and skin.
 - Respiratory protection: Not required.
 - Protection of hands: Protective gloves Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation Use chemical resistant protective gloves according to EN 374.
 - 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.
Butyl rubber, BR
recommended material thickness >0,7 mm
Nitrile rubber, NBR
recommended thickness of the material >0.4 mm
 - Penetration time of glove material
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
For the mixture of chemicals mentioned below the penetration time has to be at least 480 minutes (Permeation according to EN 374 Part 3: level 6).
 - Eye protection: Tightly sealed goggles
 - Body protection: Safety shoes according to EN ISO 20345 clothes with long sleeves long trousers Protective work clothing

09 Physical and chemical properties
9.1 Information on basic physical and chemical properties
General Information
Appearance:

Form:	Fluid
Colour:	Yellowish
Odour:	Amine-like
Odour threshold:	Not determined.
pH-value:	Not determined.

Change in condition

Initial boiling point and boiling range:	> 200 °C
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Flash point:	100 °C	DIN 51376
Flammability (solid, gas):	Not applicable.	
Ignition temperature:		
Decomposition temperature:	Not determined.	
Auto-ignition temperature:	Not determined.	
Explosive properties:	Not determined.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
Vapour pressure:	Not determined.	
Density:	0,9500 - 1,0500 g/cm ³	
Solubility in / Miscibility with water:	Not determined.	
Viscosity:		
* Dynamic:	at 23 °C	250 - 650 mPa.s
Kinematic:	Not determined.	
Solvent content:		
* Organic solvents:	2,50 %	
* VOC (EC)	25,00 g/l	2,5000 %
Solids content:	100,00 %	
9.2 Other information	No further relevant information available.	

10 Stability and reactivity

- 10.1 Reactivity
No further relevant information available.
- 10.2 Chemical stability
- 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.

11 Toxicological information

- 11.1 Information on toxicological effects
- Acute toxicity
- LD/LC50 values relevant for classification:
- * **104-78-9 3-aminopropyl-diethylamine**
Oral, LD50: 1410 mg/kg (rat)
Dermal, LD50: 750 mg/kg (Rabbit)
- * **100-51-6 Benzyl alcohol**
Oral, LD50: 1230 mg/kg (rat)
Dermal, LD50: 2000 mg/kg (Rabbit)
Inhalative, LC50/4h: >4178 mg/l (rat) (OECD TG 403)
- * **111-40-0 2,2'-iminodiethylamine**
Oral, LD50: 1080 mg/kg (rat)
Dermal, LD50: 1090 mg/kg (Rabbit)
- Primary irritant effect:
- * **Serious eye damage/irritation**
Strong irritant with the danger of severe eye injury.
- Respiratory or skin sensitisation

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- * Sensitisation possible through skin contact.
- * **Additional toxicological information:**
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:
- * Harmful
Irritant
- * **11.2 Information on other hazards**
- * **Endocrine disrupting properties**
- * None of the ingredients is listed.

12 Ecological information

- * **12.1 Toxicity**
- * **Aquatic toxicity:**
- * **100-51-6 Benzyl alcohol**
Dermal, LC50/48h: 645 mg/l (Leuciscus idus auratus)
- * **12.2 Persistence and degradability**
No further relevant information available.
- * **Behaviour in environmental systems:**
- * **12.3 Bioaccumulative potential**
No further relevant information available.
- * **12.4 Mobility in soil**
No further relevant information available.
- * **Ecotoxicological effects:**
- * **Remark:**
Very toxic for fish
Toxic for fish
- * **Additional ecological information:**
- * **General notes:**
Very toxic for aquatic organisms
Toxic for aquatic organisms
Do not allow product to reach ground water, water course or sewage system, even in small quantities.
Do not allow product to reach ground water, water course or sewage system.
Must not reach sewage water or drainage ditch undiluted or unneutralised.
Danger to drinking water if even extremely small quantities leak into the ground.
Also poisonous for fish and plankton in water bodies.
- * **12.5 Results of PBT and vPvB assessment**
- * **PBT:**
Not applicable.
- * **vPvB:**
Not applicable.
- * **12.6 Other adverse effects**
No further relevant information available.

13 Disposal considerations

- * **13.1 Waste treatment methods**
- * **Uncleaned packaging:**
- * **Recommendation:**
Disposal must be made according to official regulations.

14 Transport information

- * **14.1 UN-Number**
- ADR** UN2735
- IMDG** UN2735
- IATA** UN2735
- * **14.2 UN proper shipping name**
- ADR** 2735 AMINES, LIQUID, CORROSIVE, N.O.S. (CARBOMONOCYCLIC ALKYLATED MIXTURES OF POLY-AZA- ALKANES, HYDROGENATED)
- IMDG** AMINES, LIQUID, CORROSIVE, N.O.S. (CARBOMONOCYCLIC ALKYLATED MIXTURES OF POLY-AZA- ALKANES, HYDROGENATED)

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IATA AMINES, LIQUID, CORROSIVE, N.O.S. (CARBOMONOCYCLIC ALKYLATED MIXTURES OF POLY-AZA- ALKANES, HYDROGENATED)

- 14.3 Transport hazard class(es)

ADR**Class**

8 (C7) Corrosive substances.

Label

8

**IMDG****Class**

8 Corrosive substances.

Label

8

**IATA****Class**

8 Corrosive substances.

Label

8



- 14.4 Packing group

ADR

III

IMDG

III

IATA

III

- 14.5 Environmental hazards:

Marine pollutant:

Yes

- 14.6 Special precautions for user

Warning: Corrosive substances.

Danger code (Kemler):

80

EMS Number:

F-A,S-B

- 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
Not applicable.

- Transport/Additional information:

Excepted quantities (EQ):

E1

Limited quantities (LQ)

5L

Transport category

3

Tunnel restriction code

E

IMDG**Limited quantities (LQ)**

5L

Excepted quantities (EQ)

E1

- UN "Model Regulation":

UN 2735 AMINES, LIQUID, CORROSIVE, N.O.S. (CARBOMONOCYCLIC ALKYLATED MIXTURES OF POLY-AZA- ALKANES, HYDROGENATED), 8, III, ENVIRONMENTALLY HAZARDOUS

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- * **15 Regulatory information**
- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
 - 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.
 - REGULATION (EC) No 1907/2006 ANNEX XVII
 - * Conditions of restriction: 3, 40
 - National regulations:
 - * • Waterhazard class:
 - * Water hazard class 3 (Self-assessment): extremely hazardous for water.
 - 15.2 Chemical safety assessment:

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.
- * H302 Harmful if swallowed.
- * H311 Toxic in contact with skin.
- * H312 Harmful in contact with skin.
- * H314 Causes severe skin burns and eye damage.
- * H317 May cause an allergic skin reaction.
- * H318 Causes serious eye damage.
- * H319 Causes serious eye irritation.
- * H330 Fatal if inhaled.
- * H332 Harmful if inhaled.
- * H335 May cause respiratory irritation.
- * H400 Very toxic to aquatic life.
- * H411 Toxic to aquatic life with long lasting effects.
- Department issuing MSDS:
Environment protection department.
Department for product safety
- 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)
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organisation
ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)
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
- * Data compared to the previous version altered.