



# SAFETY DATA SHEET

## VIVELOCK GLOSS

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

#### 1.1. Product identifier

**Product name** : VIVELOCK GLOSS

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Product use** : Solvent borne coating for exterior use.

#### 1.3. Details of the supplier of the safety data sheet

VIVECHROM ,  
Thesi Vathi Pigadi,  
196 00 Mandra Attikis, Greece  
Tel. +30 210 5538700,  
Fax. +30 210 5550464,  
www.vivechrom.gr

**e-mail address of person responsible for this SDS** : HSE.GR@akzonobel.com

#### 1.4 Emergency telephone number

**Telephone number** : Emergency phone number of the Company  
Tel. +30(210) 5538700 (24 Hours/day, every day) & 801 11 55600 (8:00 - 16:00)  
Official advisory body (Greece)  
Tel. +30 (210) 7793 777, (24 Hours/day, every day)

**Version** : 10.01

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

**Product definition** : Mixture

**Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]**

Flam. Liq. 3, H226  
STOT SE 3, H336  
Aquatic Chronic 3, H412

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

**Ingredients of unknown toxicity** : 0%

**Ingredients of unknown ecotoxicity** : 0%

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

#### 2.2 Label elements

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**SECTION 2: Hazards identification****Hazard pictograms****Signal word**

: Warning

**Hazard statements**

: H226 - Flammable liquid and vapour.  
 H336 - May cause drowsiness or dizziness.  
 H412 - Harmful to aquatic life with long lasting effects.

**Precautionary statements****General**

: P102 - Keep out of reach of children.  
 P101 - If medical advice is needed, have product container or label at hand.

**Prevention**

: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 P233 - Keep container tightly closed.  
 P262 - Do not get in eyes, on skin, or on clothing.

**Response**

: P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 P312 - Call a POISON CENTER or doctor/physician if you feel unwell.

**Storage**

: P235 - Keep cool.

**Disposal**

: P501 - Dispose of contents and container in accordance with all local, regional, national or international regulations.

**Hazardous ingredients**

: Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, &lt;2% aromatics

**Supplemental label elements**

: Contains Fatty acids, C18-unsatd., dimers, compds. with coco alkylamines and maleic anhydride. May produce an allergic reaction. Repeated exposure may cause skin dryness or cracking.

**Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles**

: Not applicable.

**Special packaging requirements****Containers to be fitted with child-resistant fastenings**

: Not applicable.

**Tactile warning of danger**

: Not applicable.

**2.3 Other hazards****Other hazards which do not result in classification**

: None known.

**SECTION 3: Composition/information on ingredients****3.2 Mixtures**

: Mixture

Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Type
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	REACH #: 01-2119463258-33	≥25 - ≤50	Flam. Liq. 3, H226 STOT SE 3, H336 Asp. Tox. 1, H304 EUH066	[1]
trizinc bis(orthophosphate)	REACH #: 01-2119485044-40 EC: 231-944-3 CAS: 7779-90-0 Index: 030-011-00-6	≤2,2	Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	[1]
Naphtha (petroleum),	EC: 265-150-3	≤3	Asp. Tox. 1, H304	[1]

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## SECTION 3: Composition/information on ingredients

hydrotreated heavy	CAS: 64742-48-9 Index: 649-327-00-6		EUH066	
Naphtha (petroleum), hydrotreated heavy	EC: 265-150-3 CAS: 64742-48-9	≤3	Flam. Liq. 3, H226 STOT SE 3, H336 Asp. Tox. 1, H304 EUH066	[1]
Hydrocarbons,C10-C13,n- alkanes,isoalkanes,cyclics, <2%aromatics	REACH #: 01-2119457273-39	≤0,3	Asp. Tox. 1, H304 EUH066	[1]
Fatty acids, C18-unsatd., dimers, compds. with coco alkylamines	CAS: 68647-95-0	≤0,2	Skin Irrit. 2, H315 Skin Sens. 1B, H317 STOT RE 2, H373 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	[1]
Solvent naphtha (petroleum), heavy arom.	REACH #: 01-2119463583-34 EC: 265-198-5	≤0,3	STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH066	[1]
(2-methoxymethylethoxy) propanol	REACH #: 01-2119450011-60 EC: 252-104-2 CAS: 34590-94-8	≤0,1	Not classified.	[2]
2-ethylhexanoic acid, manganese salt	EC: 240-085-3 CAS: 15956-58-8	≤0,1	Eye Irrit. 2, H319 Repr. 2, H361fd (Fertility and Unborn child) STOT RE 2, H373 Aquatic Chronic 2, H411	[1] [2]
1,2,4-trimethylbenzene	EC: 202-436-9 CAS: 95-63-6 Index: 601-043-00-3	≤0,1	Flam. Liq. 3, H226 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Chronic 2, H411	[1] [2]
naphthalene	EC: 202-049-5 CAS: 91-20-3 Index: 601-052-00-2	<0,1	Acute Tox. 4, H302 Carc. 2, H351 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	[1] [2]
2-butoxyethanol	EC: 203-905-0 CAS: 111-76-2 Index: 603-014-00-0	≤0,1	Acute Tox. 4, H302 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319	[1] [2]
1,2-dichlorobenzene	EC: 202-425-9 CAS: 95-50-1 Index: 602-034-00-7	<0,1	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	[1] [2]
maleic anhydride	EC: 203-571-6 CAS: 108-31-6	<0,001	Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Resp. Sens. 1, H334 Skin Sens. 1A, H317 STOT RE 1, H372 (respiratory system)	[1] [2]
methanol	EC: 200-659-6 CAS: 67-56-1 Index: 603-001-00-X	<0,1	Flam. Liq. 2, H225 Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 3, H331 STOT SE 1, H370 <b>See Section 16 for the full text of the H statements declared above.</b>	[1] [2]

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**SECTION 3: Composition/information on ingredients**

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

Type

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
- [5] Substance of equivalent concern
- [6] Additional disclosure due to company policy

Occupational exposure limits, if available, are listed in Section 8.

**SECTION 4: First aid measures****4.1 Description of first aid measures**

- |                                   |  |
|-----------------------------------|--|
| <b>General</b>                    | : In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and seek medical advice.  |
| <b>Eye contact</b>                | : Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.  |
| <b>Inhalation</b>                 | : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.   |
| <b>Skin contact</b>               | : Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.   |
| <b>Ingestion</b>                  | : If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.   |
| <b>Protection of first-aiders</b> | : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. |

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

There are no data available on the mixture itself. The mixture has been assessed following the conventional method of the CLP Regulation (EC) No 1272/2008 and is classified for toxicological properties accordingly. See Sections 2 and 3 for details.

Exposure to component solvent vapour concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.

Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

Ingestion may cause nausea, diarrhea and vomiting.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Contains Fatty acids, C18-unsatd., dimers, compds. with coco alkylamines, maleic anhydride. May produce an allergic reaction.

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

- |                            |   |
|----------------------------|---|
| <b>Notes to physician</b>  | : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. |
| <b>Specific treatments</b> | : No specific treatment.  |

See toxicological information (Section 11)

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**SECTION 5: Firefighting measures****5.1 Extinguishing media**

**Suitable extinguishing media** : Recommended: alcohol-resistant foam, CO<sub>2</sub>, powders, water spray.

**Unsuitable extinguishing media** : Do not use water jet.

**5.2 Special hazards arising from the substance or mixture**

**Hazards from the substance or mixture** : Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.

**Hazardous combustion products** : Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

**5.3 Advice for firefighters**

**Special protective actions for fire-fighters** : Cool closed containers exposed to fire with water. Do not release runoff from fire to drains or watercourses.

**Special protective equipment for fire-fighters** : Appropriate breathing apparatus may be required.

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

**For non-emergency personnel** : Exclude sources of ignition and ventilate the area. Avoid breathing vapour or mist. Refer to protective measures listed in sections 7 and 8.

**For emergency responders** : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**6.2 Environmental precautions**

: Do not allow to enter drains or watercourses. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.

**6.3 Methods and material for containment and cleaning up**

: Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Preferably clean with a detergent. Avoid using solvents.

**6.4 Reference to other sections**

: See Section 1 for emergency contact information.  
See Section 8 for information on appropriate personal protective equipment.  
See Section 13 for additional waste treatment information.

**SECTION 7: Handling and storage**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

**7.1 Precautions for safe handling**

: Prevent the creation of flammable or explosive concentrations of vapours in air and avoid vapour concentrations higher than the occupational exposure limits. In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard. Mixture may charge electrostatically: always use earthing leads when transferring from one container to another. Operators should wear antistatic footwear and clothing and floors should be of the conducting type. Keep away from heat, sparks and flame. No sparking tools should be used. Avoid contact with skin and eyes. Avoid the inhalation of dust, particulates, spray or mist arising from the application of this mixture. Avoid inhalation of dust from sanding. Eating, drinking and smoking should be prohibited in areas where this material is

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**SECTION 7: Handling and storage**

handled, stored and processed.  
 Put on appropriate personal protective equipment (see Section 8).  
 Never use pressure to empty. Container is not a pressure vessel.  
 Always keep in containers made from the same material as the original one.  
 Comply with the health and safety at work laws.  
 Do not allow to enter drains or watercourses.

**Information on fire and explosion protection**

Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air.

When operators, whether spraying or not, have to work inside the spray booth, ventilation is unlikely to be sufficient to control particulates and solvent vapour in all cases. In such circumstances they should wear a compressed air-fed respirator during the spraying process and until such time as the particulates and solvent vapour concentration has fallen below the exposure limits.

**7.2 Conditions for safe storage, including any incompatibilities**

Store in accordance with local regulations.

**Notes on joint storage**

Keep away from: oxidising agents, strong alkalis, strong acids.

**Additional information on storage conditions**

Observe label precautions. Store in a dry, cool and well-ventilated area. Keep away from heat and direct sunlight. Keep away from sources of ignition. No smoking. Prevent unauthorised access. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

**7.3 Specific end use(s)**

**Recommendations** : Not available.

**Industrial sector specific solutions** : Not available.

**SECTION 8: Exposure controls/personal protection**

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

**8.1 Control parameters****Occupational exposure limits**

Product/ingredient name	Exposure limit values
(2-methoxymethylethoxy)propanol	<b>Υπουργείο Εργασίας και Κοινωνικών Υποθέσεων (Greece, 2/2012). Absorbed through skin.</b> TWA: 100 ppm 8 hours. TWA: 600 mg/m <sup>3</sup> 8 hours. STEL: 150 ppm 15 minutes. STEL: 900 mg/m <sup>3</sup> 15 minutes.
2-ethylhexanoic acid, manganese salt	<b>Υπουργείο Εργασίας και Κοινωνικών Υποθέσεων (Greece, 2/2012).</b> TWA: 5 mg/m <sup>3</sup> , (as Mn) 8 hours.
1,2,4-trimethylbenzene	<b>Υπουργείο Εργασίας και Κοινωνικών Υποθέσεων (Greece, 2/2012).</b> TWA: 25 ppm 8 hours. TWA: 125 mg/m <sup>3</sup> 8 hours.
naphthalene	<b>Υπουργείο Εργασίας και Κοινωνικών Υποθέσεων (Greece, 2/2012).</b> TWA: 10 ppm 8 hours. TWA: 50 mg/m <sup>3</sup> 8 hours.
2-butoxyethanol	<b>Υπουργείο Εργασίας και Κοινωνικών Υποθέσεων (Greece, 2/2012). Absorbed through skin.</b> TWA: 25 ppm 8 hours. TWA: 120 mg/m <sup>3</sup> 8 hours.
1,2-dichlorobenzene	<b>Υπουργείο Εργασίας και Κοινωνικών Υποθέσεων (Greece,</b>



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**SECTION 8: Exposure controls/personal protection**

maleic anhydride	<p>2/2012).</p> <p>TWA: 50 ppm 8 hours. TWA: 300 mg/m<sup>3</sup> 8 hours. STEL: 50 ppm 15 minutes. STEL: 300 mg/m<sup>3</sup> 15 minutes.</p> <p><b>Υπουργείο Εργασίας και Κοινωνικών Υποθέσεων (Greece, 2/2012).</b></p> <p>TWA: 0,25 ppm 8 hours. TWA: 1 mg/m<sup>3</sup> 8 hours.</p>
methanol	<p><b>Υπουργείο Εργασίας και Κοινωνικών Υποθέσεων (Greece, 2/2012). Absorbed through skin.</b></p> <p>TWA: 200 ppm 8 hours. TWA: 260 mg/m<sup>3</sup> 8 hours. STEL: 250 ppm 15 minutes. STEL: 325 mg/m<sup>3</sup> 15 minutes.</p>

**Recommended monitoring procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

**DNELs/DMELs**

No DNELs/DMELs available.

**PNECs**

No PNECs available

**8.2 Exposure controls**

**Appropriate engineering controls** : Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapours below the OEL, suitable respiratory protection must be worn.

**Individual protection measures**

**Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection** : Use safety eyewear designed to protect against splash of liquids.

**Skin protection****Hand protection****Gloves**

: When prolonged or frequently repeated contact may occur, a glove with a protection class of 6 (breakthrough time >480 minutes according to EN374) is recommended. Recommended gloves: Viton ® or Nitrile, thickness ≥ 0.38 mm. When only brief contact is expected, a glove with protection class of 2 or higher (breakthrough time >30 minutes according to EN374) is recommended. Recommended gloves: Nitrile, thickness ≥ 0.12 mm. Gloves should be replaced regularly and if there is any sign of damage to the glove material.

The performance or effectiveness of the glove may be reduced by physical/chemical damage and poor maintenance.

## SECTION 8: Exposure controls/personal protection

- Body protection** : Personnel should wear antistatic clothing made of natural fibres or of high-temperature-resistant synthetic fibres.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators.

### OLD LEAD-BASED PAINTS:

When surfaces are to be prepared for painting, account should be taken of the age of the property and the possibility that lead-pigmented paint might be present. There is a possibility that ingestion or inhalation of scrapings or dust arising from the preparation work could cause health effects. As a working rule you should assume that this will be the case if the age of the property is pre 1960.

Where possible wet sanding or chemical stripping methods should be used with surfaces of this type to avoid the creation of dust. When dry sanding cannot be avoided, and effective local exhaust ventilation is not available, it is recommended that a dust respirator is worn, that is approved for use with lead dusts, and its type selected on the basis of the COSHH assessment, taking into account the Workplace Exposure Limit for lead in air. Furthermore, steps should be taken to ensure containment of the dusts created, and that all practicable measures are taken to clean up thoroughly all deposits of dusts in and around the affected area.

Respiratory protection in case of dust or spray mist formation. (particle filter EN143 type P2) Respiratory protection in case of vapour formation. (half mask with combination filter A2-P2 til concentrations of 0,5 Vol%.)

The current Control of Lead at Work Regulations approved code of practice should be consulted for advice on protective clothing and personal hygiene precautions. Care should also be taken to exclude visitors, members of the household and especially children from the affected area, during the actual work and the subsequent clean up operations. All scrapings, dust, etc. should be disposed of by the professional painting contractor as Hazardous Waste.

Extra precautions will also need to be taken when burning off old lead-based paints because fumes containing lead will be produced. It is recommended that a respirator, approved for use with particulate fumes of lead is selected on the basis of the COSHH assessment, taking into account the Workplace Exposure Limit for lead in air. Similar precautions to those given above about sanding should be taken with reference to protective clothing, disposal of scrapings and dusts, and exclusion of other personnel and especially children from the building during actual work and the subsequent clean up operations.

Avoid the inhalation of dust. Wear suitable face mask if dry sanding. Special precautions should be taken during surface preparation of pre-1960s paint surfaces over wood and metal as they may contain harmful lead.

- Environmental exposure controls** : Do not allow to enter drains or watercourses.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

#### Appearance

- Physical state** : Liquid.
- Colour** : Various: See label.
- Odour** : Not available.
- Odour threshold** : Not available.
- pH** : Not available.
- Melting point/freezing point** : Not available.



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**SECTION 9: Physical and chemical properties**

<b>Initial boiling point and boiling range</b>	: 155°C
<b>Flash point</b>	: Closed cup: 38°C
<b>Evaporation rate</b>	: Not available.
<b>Upper/lower flammability or explosive limits</b>	: Not available.
<b>Vapour pressure</b>	: Not available.
<b>Vapour density</b>	: Not available.
<b>Relative density</b>	: 0,933
<b>Solubility(ies)</b>	: Insoluble in the following materials: cold water.
<b>Partition coefficient: n-octanol/ water</b>	: Not available.
<b>Auto-ignition temperature</b>	: Not available.
<b>Decomposition temperature</b>	: Not available.
<b>Viscosity</b>	: Kinematic (room temperature): 10,72 cm <sup>2</sup> /s
<b>Explosive properties</b>	: Not available.
<b>Oxidising properties</b>	: Not available.
<b>9.2. Other information</b>	
<b>Solubility in water</b>	: Not available.

**SECTION 10: Stability and reactivity**

<b>10.1 Reactivity</b>	: No specific test data related to reactivity available for this product or its ingredients.
<b>10.2 Chemical stability</b>	: Stable under recommended storage and handling conditions (see Section 7).
<b>10.3 Possibility of hazardous reactions</b>	: Under normal conditions of storage and use, hazardous reactions will not occur.
<b>10.4 Conditions to avoid</b>	: When exposed to high temperatures may produce hazardous decomposition products.
<b>10.5 Incompatible materials</b>	: Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.
<b>10.6 Hazardous decomposition products</b>	: Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

**SECTION 11: Toxicological information****11.1 Information on toxicological effects**

There are no data available on the mixture itself. The mixture has been assessed following the conventional method of the CLP Regulation (EC) No 1272/2008 and is classified for toxicological properties accordingly. See Sections 2 and 3 for details.

Exposure to component solvent vapour concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.

Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

Ingestion may cause nausea, diarrhea and vomiting.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

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**SECTION 11: Toxicological information**

Contains Fatty acids, C18-unsatd., dimers, compds. with coco alkylamines, maleic anhydride. May produce an allergic reaction.

**Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure	
(2-methoxymethylethoxy) propanol	LD50 Dermal	Rabbit	10 mL/kg	-	
2-butoxyethanol	LD50 Oral	Dog	7500 mg/kg	-	
	LD50 Oral	Rat	5,5 mL/kg	-	
	LD50 Oral	Rat	5400 uL/kg	-	
	LC50 Inhalation Gas.	Mouse	700 ppm	7 hours	
	LD50 Dermal	Guinea pig	230 uL/kg	-	
	LD50 Dermal	Rabbit	220 mg/kg	-	
	LD50 Intraperitoneal	Mouse	536 mg/kg	-	
	LD50 Intraperitoneal	Rabbit	220 mg/kg	-	
	LD50 Intraperitoneal	Rat	220 mg/kg	-	
	LD50 Intravenous	Mouse	1130 mg/kg	-	
	LD50 Intravenous	Rabbit	252 mg/kg	-	
	LD50 Intravenous	Rat	307 mg/kg	-	
	LD50 Oral	Guinea pig	1200 mg/kg	-	
	LD50 Oral	Mouse	1230 mg/kg	-	
	LD50 Oral	Mouse	1167 mg/kg	-	
	LD50 Oral	Rabbit	300 mg/kg	-	
	LD50 Oral	Rabbit	320 mg/kg	-	
	LD50 Oral	Rat	917 mg/kg	-	
	LD50 Oral	Rat	250 mg/kg	-	
	LD50 Route of exposure unreported	Mammal - species unspecified	1500 mg/kg	-	
	LD50 Route of exposure unreported	Mouse	1050 mg/kg	-	
	LD50 Route of exposure unreported	Rat	917 mg/kg	-	
	LDLo Oral	Human	143 mg/kg	-	
	LDLo Oral	Rat	1500 mg/kg	-	
	LDLo Subcutaneous	Mouse	500 mg/kg	-	
	TDLo Intraperitoneal	Mammal - species unspecified	100 mg/kg	-	
	TDLo Oral	Man - Male	132 mg/kg	-	
TDLo Oral	Rat	500 mg/kg	-		
TDLo Oral	Woman - Female	600 mg/kg	-		
TDLo Oral	Woman - Female	7813 uL/kg	-		
TDLo Route of exposure unreported	Rat	250 mg/kg	-		
1,2-dichlorobenzene	LD50 Dermal	Rabbit	>10 g/kg	-	
	LD50 Intraperitoneal	Mouse	1228 mg/kg	-	
	LD50 Intraperitoneal	Rat	840 mg/kg	-	
	LD50 Oral	Mouse	4386 mg/kg	-	
	LD50 Oral	Rabbit	500 mg/kg	-	
	LD50 Oral	Rat	500 mg/kg	-	
	LD50 Subcutaneous	Rat	5 g/kg	-	
	LDLo Intravenous	Mouse	400 mg/kg	-	
	LDLo Intravenous	Rabbit	250 mg/kg	-	
	LDLo Oral	Guinea pig	2000 mg/kg	-	
	TDLo Intraperitoneal	Rat	735 mg/kg	-	
	TDLo Intraperitoneal	Rat	1 mg/kg	-	
	TDLo Intraperitoneal	Rat	735 mg/kg	-	
	maleic anhydride	LD50 Dermal	Guinea pig	>20 g/kg	-
		LD50 Dermal	Rabbit	2620 mg/kg	-
LD50 Intraperitoneal		Rat	97 mg/kg	-	
LD50 Oral		Guinea pig	390 mg/kg	-	

## VIVELOCK GLOSS

## SECTION 11: Toxicological information

methanol	LD50 Oral	Mouse	465 mg/kg	-
	LD50 Oral	Rabbit	875 mg/kg	-
	LD50 Oral	Rat	400 mg/kg	-
	LD50 Dermal	Rabbit	15800 mg/kg	-
	LD50 Intraperitoneal	Guinea pig	3556 mg/kg	-
	LD50 Intraperitoneal	Hamster	8555 mg/kg	-
	LD50 Intraperitoneal	Mouse	10765 mg/kg	-
	LD50 Intraperitoneal	Rabbit	1826 mg/kg	-
	LD50 Intraperitoneal	Rat	7529 mg/kg	-
	LD50 Intravenous	Mouse	4710 mg/kg	-
	LD50 Intravenous	Rabbit	8907 mg/kg	-
	LD50 Intravenous	Rat	2131 mg/kg	-
	LD50 Oral	Dog	7500 mg/kg	-
	LD50 Oral	Monkey	7 g/kg	-
	LD50 Oral	Monkey	7000 mg/kg	-
	LD50 Oral	Mouse	5800 mg/kg	-
	LD50 Oral	Pig	>5000 mg/kg	-
	LD50 Oral	Rabbit	14200 mg/kg	-
	LD50 Oral	Rat	5600 mg/kg	-
	LD50 Subcutaneous	Mouse	9800 mg/kg	-
	LDLo Dermal	Monkey	393 mg/kg	-
	LDLo Intravenous	Cat	4641 mg/kg	-
	LDLo Oral	Dog	7500 mg/kg	-
	LDLo Oral	Human	428 mg/kg	-
	LDLo Oral	Human	143 mg/kg	-
	LDLo Oral	Man - Male	14 mL/kg	-
	LDLo Oral	Man - Male	6422 mg/kg	-
	LDLo Oral	Monkey	5000 mg/kg	-
	LDLo Oral	Mouse	420 mg/kg	-
	LDLo Oral	Rabbit	7500 mg/kg	-
	LDLo Oral	Woman - Female	10 mL/kg	-
	LDLo Parenteral	Frog	59 g/kg	-
	LDLo Route of exposure unreported	Man - Male	868 mg/kg	-
	TDLo Intraperitoneal	Rat	3490 mg/kg	-
	TDLo Intraperitoneal	Rat	3000 mg/kg	-
	TDLo Oral	Man - Male	0,43 mL/kg	-
TDLo Oral	Man - Male	1,14 mL/kg	-	
TDLo Oral	Man - Male	1,4 mL/kg	-	
TDLo Oral	Man - Male	3429 mg/kg	-	
TDLo Oral	Man - Male	3571 uL/kg	-	
TDLo Oral	Man - Male	9450 uL/kg	-	
TDLo Oral	Rat	8 g/kg	-	
TDLo Oral	Rat	3 g/kg	-	
TDLo Oral	Rat	3 g/kg	-	
TDLo Oral	Rat	8 mL/kg	-	
TDLo Oral	Rat	3500 mg/kg	-	
TDLo Oral	Woman - Female	4 g/kg	-	
TDLo Subcutaneous	Rat	6825 mg/kg	-	

**Conclusion/Summary** : Not available.

**Acute toxicity estimates**

Not available.

**Irritation/Corrosion**

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## SECTION 11: Toxicological information

Product/ingredient name	Result	Species	Score	Exposure	Observation
Solvent naphtha (petroleum), heavy arom. (2-methoxymethylethoxy) propanol	Skin - Mild irritant	Rabbit	-	24 hours 500 microliters	-
	Eyes - Mild irritant	Human	-	8 milligrams	-
naphthalene	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	500 milligrams	-
	Skin - Mild irritant	Rabbit	-	495 milligrams	-
2-butoxyethanol	Skin - Severe irritant	Rabbit	-	24 hours 0.05 Milliliters	-
	Eyes - Moderate irritant	Rabbit	-	24 hours 100 milligrams	-
	Eyes - Severe irritant	Rabbit	-	100 milligrams	-
1,2-dichlorobenzene	Skin - Mild irritant	Rabbit	-	500 milligrams	-
	Eyes - Mild irritant	Rabbit	-	0,5 minutes 100 milligrams	-
maleic anhydride methanol	Eyes - Severe irritant	Rabbit	-	1 Percent	-
	Eyes - Moderate irritant	Rabbit	-	24 hours 100 milligrams	-
	Eyes - Moderate irritant Skin - Moderate irritant	Rabbit Rabbit	- -	40 milligrams 24 hours 20 milligrams	- -

**Conclusion/Summary** : Not available.

**Sensitisation**

**Conclusion/Summary** : Not available.

**Mutagenicity**

**Conclusion/Summary** : Not available.

**Carcinogenicity**

**Conclusion/Summary** : Not available.

**Reproductive toxicity**

**Conclusion/Summary** : Not available.

**Teratogenicity**

**Conclusion/Summary** : Not available.

**Specific target organ toxicity (single exposure)**

Product/ingredient name	Category	Route of exposure	Target organs
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	Category 3	Not applicable.	Narcotic effects
Naphtha (petroleum), hydrotreated heavy	Category 3	Not applicable.	Narcotic effects
Solvent naphtha (petroleum), heavy arom.	Category 3	Not applicable.	Narcotic effects

**Specific target organ toxicity (repeated exposure)**

Product/ingredient name	Category	Route of exposure	Target organs
Fatty acids, C18-unsatd., dimers, compds. with coco alkylamines	Category 2	Not determined	Not determined
maleic anhydride	Category 1	Not determined	respiratory system

**Aspiration hazard**

## VIVELOCK GLOSS

## SECTION 11: Toxicological information

Product/ingredient name	Result
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	ASPIRATION HAZARD - Category 1
Naphtha (petroleum), hydrotreated heavy	ASPIRATION HAZARD - Category 1
Naphtha (petroleum), hydrotreated heavy	ASPIRATION HAZARD - Category 1
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics	ASPIRATION HAZARD - Category 1
Solvent naphtha (petroleum), heavy arom.	ASPIRATION HAZARD - Category 1

Other information : Not available.

## SECTION 12: Ecological information

## 12.1 Toxicity

There are no data available on the mixture itself.  
Do not allow to enter drains or watercourses.

The mixture has been assessed following the summation method of the CLP Regulation (EC) No 1272/2008 and is classified for eco-toxicological properties accordingly. See Sections 2 and 3 for details.

Product/ingredient name	Result	Species	Exposure
trizinc bis(orthophosphate)	Acute EC50 0,21 mg/l	Daphnia - Ceriodaphnia dubia	48 hours
	Acute EC50 0,19 mg/l	Daphnia - Ceriodaphnia reticulata	48 hours
	Acute EC50 0,27 mg/l	Daphnia - Daphnia pulex	48 hours
	Acute IC50 0,136 mg/l	Algae - Selenastrum capricornutum	72 hours
	Acute LC50 1,92 mg/l	Fish - Oncorhynchus kisutch	96 hours
1,2,4-trimethylbenzene	Acute LC50 0,77 mg/l	Fish - Pimephales promelas	96 hours
	Acute LC50 0,33 mg/l	Fish - Thymallus articus	96 hours
	Acute LC50 90 µg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Acute LC50 4910 µg/l Marine water	Crustaceans - Elasmopus pecteniscrus - Adult	48 hours
	Acute LC50 22,4 mg/l Fresh water	Fish - Tilapia zillii	96 hours
naphthalene	Acute EC50 1,6 ppm Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 2800 µg/l Marine water	Crustaceans - Elasmopus pecteniscrus - Adult	48 hours
	Acute LC50 0,51 mg/l Fresh water	Fish - Melanotaenia fluviatilis - LARVAE	96 hours
	Acute LC50 553 µg/l Fresh water	Fish - Melanotaenia fluviatilis - LARVAE	96 hours
	Acute LC50 470 µg/l Fresh water	Fish - Melanotaenia fluviatilis - LARVAE	96 hours
2-butoxyethanol	Chronic NOEC 0,5 mg/l Marine water	Crustaceans - Uca pugnax - Adult	3 weeks
	Chronic NOEC 1,5 mg/l Fresh water	Fish - Oreochromis mossambicus	60 days
	Acute EC50 >1000 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
1,2-dichlorobenzene	Acute LC50 800000 µg/l Marine water	Crustaceans - Crangon crangon	48 hours
	Acute LC50 1490000 µg/l Fresh water	Fish - Lepomis macrochirus	96 hours
	Acute LC50 1250000 µg/l Marine water	Fish - Menidia beryllina	96 hours
	Acute EC50 16,2 mg/l Fresh water	Algae - Chlorella marina	72 hours
	Acute EC50 12,8 mg/l Fresh water	Algae - Phaeodactylum tricornutum	72 hours
	Acute EC50 16,9 mg/l Fresh water	Algae - Platymonas subcordiformis	72 hours
	Acute EC50 2200 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Acute EC50 13,1 mg/l Fresh water	Algae - Nannochloropsis oculata	72 hours
	Acute EC50 740 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute EC50 1,55 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
1,2-dichlorobenzene	Acute LC50 10300 µg/l Marine water	Crustaceans - Palaemonetes pugio	48 hours
	Acute LC50 4,52 ppm Marine water	Crustaceans - Americamysis	48 hours

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## SECTION 12: Ecological information

maleic anhydride methanol	Acute LC50 2400 µg/l Fresh water	bahia Daphnia - Daphnia magna	48 hours
	Acute LC50 2200 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 5,6 mg/l Fresh water	Fish - Lepomis macrochirus - Young of the year	96 hours
	Acute LC50 1,4 mg/l Fresh water	Fish - Gibelion catla	96 hours
	Acute LC50 1610 µg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Acute LC50 4,5 mg/l Fresh water	Fish - Danio rerio	96 hours
	Chronic NOEC 0,63 mg/l Fresh water	Daphnia - Daphnia magna	21 days
	Chronic NOEC 630 µg/l Fresh water	Daphnia - Daphnia magna	21 days
	Acute LC50 230 ppm Fresh water	Fish - Gambusia affinis - Adult	96 hours
	Acute EC50 16,912 mg/l Marine water	Algae - Ulva pertusa	96 hours
	Acute EC50 24500000 µg/l Fresh water	Daphnia - Daphnia magna - Larvae	48 hours
	Acute EC50 22200 mg/l Fresh water	Daphnia - Daphnia obtusa - Neonate	48 hours
	Acute EC50 12835 mg/l Fresh water	Fish - Lepomis macrochirus	96 hours
	Acute EC50 12700000 µg/l Fresh water	Fish - Lepomis macrochirus - Juvenile (Fledgling, Hatchling, Weanling)	96 hours
	Acute EC50 13000000 µg/l Fresh water	Fish - Oncorhynchus mykiss - Juvenile (Fledgling, Hatchling, Weanling)	96 hours
Acute LC50 2500000 µg/l Marine water	Crustaceans - Crangon crangon - Adult	48 hours	
Acute LC50 3289 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours	
Acute LC50 15,32 g/L Fresh water	Fish - Oreochromis mossambicus - Adult	96 hours	
Acute LC50 290 mg/l Fresh water	Fish - Danio rerio - Egg	96 hours	
Chronic NOEC 71 ppm Fresh water	Algae - Heterosigma akashiwo	96 hours	
Chronic NOEC 1400 ppm Fresh water	Algae - Skeletonema costatum	96 hours	
Chronic NOEC 410 ppm Fresh water	Algae - Prorocentrum minimum	96 hours	
Chronic NOEC 24 ppm Fresh water	Algae - Eutreptiella sp.	96 hours	
Chronic NOEC 9,96 mg/l Marine water	Algae - Ulva pertusa	96 hours	

**Conclusion/Summary** : Not available.

### 12.2 Persistence and degradability

**Conclusion/Summary** : Not available.

### 12.3 Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
trizinc bis(orthophosphate)	-	60960	high
Naphtha (petroleum), hydrotreated heavy	-	10 to 2500	high
Solvent naphtha (petroleum), heavy arom.	2,8 to 6,5	99 to 5780	high
(2-methoxymethylethoxy) propanol	0,004	-	low
2-ethylhexanoic acid, manganese salt	-	2,96	low
1,2,4-trimethylbenzene	3,63	243	low
naphthalene	3,4	36.5 to 168	low
2-butoxyethanol	0,81	-	low
1,2-dichlorobenzene	3,38	150 to 230	low
maleic anhydride	-2,78	-	low
methanol	-0,77	<10	low

### 12.4 Mobility in soil

**Soil/water partition  
coefficient (K<sub>oc</sub>)** : Not available.



## VIVELOCK GLOSS

**SECTION 12: Ecological information**

**Mobility** : Not available.

**12.5 Results of PBT and vPvB assessment**

**PBT** : Not applicable.

**vPvB** : Not applicable.

**12.6 Other adverse effects** : No known significant effects or critical hazards.

**SECTION 13: Disposal considerations**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

**13.1 Waste treatment methods****Product**

**Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

**Hazardous waste** : The classification of the product may meet the criteria for a hazardous waste.

**Disposal considerations** : Do not allow to enter drains or watercourses. Dispose of according to all federal, state and local applicable regulations. If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned. For further information, contact your local waste authority.

**Packaging**

**Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

**Disposal considerations** : Using information provided in this safety data sheet, advice should be obtained from the relevant waste authority on the classification of empty containers. Empty containers must be scrapped or reconditioned. Dispose of containers contaminated by the product in accordance with local or national legal provisions.

Type of packaging	European waste catalogue (EWC)
CEPE Paint Guidelines	15 01 10* packaging containing residues of or contaminated by hazardous substances

**Special precautions** : This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

**SECTION 14: Transport information**

**Information pertaining to IATA and ADN is considered not relevant since the material is not packaged in the correct approved packaging required of these methods of transport.**

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<b>Information pertaining to IATA and ADN is considered not relevant since the material is not packaged in the correct approved packaging required of these methods of transport.</b>		
	<b>ADR</b>	<b>IMDG</b>
14.1 UN number	UN1263	UN1263
14.2 UN proper shipping name	PAINT	PAINT
14.3 Transport hazard class(es) Class	3	3
Subsidiary class	-	-
14.4 Packing group	III	III
14.5 Environmental hazards Marine pollutant	No.	No.
Marine pollutant substances		Not available.
14.6 Special precautions for user	Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.	
HI/Kemler number	30	
Emergency schedules (EmS)		F-E, S-E
14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code	: Not applicable.	
Additional information	<p><b>Viscous substance exemption</b> In pack sizes less than 450 litres, under the terms of 2.2.3.1.5, this product is not subject to the provisions of ADR.</p> <p style="text-align: center;"><b>Tunnel code</b> (D/E)</p>	<p><b>Viscous substance exemption</b> In pack sizes up to and including 30 litres, under the terms of 2.3.2.5, this product is not subject to the packaging, labelling and marking requirements of the IMDG Code, but both full documentation and placarding of cargo transport units is still required.</p>

## SECTION 15: Regulatory information

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

#### EU Regulation (EC) No. 1907/2006 (REACH)

#### Annex XIV - List of substances subject to authorisation

#### Annex XIV

None of the components are listed, or the component present is below its threshold.

#### Substances of very high concern

None of the components are listed, or the component present is below its threshold.

## VIVELOCK GLOSS

**SECTION 15: Regulatory information**

**Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles** : Not applicable.

**Other EU regulations**

**VOC for Ready-for-Use Mixture** : Not applicable.

**Ozone depleting substances (1005/2009/EU)**

Not listed.

**Prior Informed Consent (PIC) (649/2012/EU)**

Not listed.

**Seveso Directive**

This product may add to the calculation for determining whether a site is within the scope of the Seveso Directive on major accident hazards.

**International regulations****Chemical Weapon Convention List Schedules I, II & III Chemicals**

Not listed.

**Montreal Protocol (Annexes A, B, C, E)**

Not listed.

**Stockholm Convention on Persistent Organic Pollutants**

Not listed.

**Rotterdam Convention on Prior Informed Consent (PIC)**

Not listed.

**UNECE Aarhus Protocol on POPs and Heavy Metals**

Not listed.

**15.2 Chemical safety assessment** : No Chemical Safety Assessment has been carried out.

**SECTION 16: Other information**

**CEPE code** : 1

Indicates information that has changed from previously issued version.

**Abbreviations and acronyms** : ATE = Acute Toxicity Estimate  
 CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]  
 DMEL = Derived Minimal Effect Level  
 DNEL = Derived No Effect Level  
 EUH statement = CLP-specific Hazard statement  
 PBT = Persistent, Bioaccumulative and Toxic  
 PNEC = Predicted No Effect Concentration  
 RRN = REACH Registration Number  
 vPvB = Very Persistent and Very Bioaccumulative

**Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]**

Classification	Justification
Flam. Liq. 3, H226 STOT SE 3, H336 Aquatic Chronic 3, H412	On basis of test data Calculation method Calculation method

**Full text of abbreviated H statements**

## VIVELOCK GLOSS

## SECTION 16: Other information

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
H370	Causes damage to organs.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

[Full text of classifications \[CLP/GHS\]](#)

Acute Tox. 3, H301	ACUTE TOXICITY (oral) - Category 3
Acute Tox. 3, H311	ACUTE TOXICITY (dermal) - Category 3
Acute Tox. 3, H331	ACUTE TOXICITY (inhalation) - Category 3
Acute Tox. 4, H302	ACUTE TOXICITY (oral) - Category 4
Acute Tox. 4, H312	ACUTE TOXICITY (dermal) - Category 4
Acute Tox. 4, H332	ACUTE TOXICITY (inhalation) - Category 4
Aquatic Acute 1, H400	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
Aquatic Chronic 1, H410	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1
Aquatic Chronic 2, H411	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
Aquatic Chronic 3, H412	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
Asp. Tox. 1, H304	ASPIRATION HAZARD - Category 1
Carc. 2, H351	CARCINOGENICITY - Category 2
EUH066	Repeated exposure may cause skin dryness or cracking.
Eye Dam. 1, H318	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
Eye Irrit. 2, H319	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Flam. Liq. 2, H225	FLAMMABLE LIQUIDS - Category 2
Flam. Liq. 3, H226	FLAMMABLE LIQUIDS - Category 3
Repr. 2, H361fd	REPRODUCTIVE TOXICITY (Fertility and Unborn child) - Category 2
Resp. Sens. 1, H334	RESPIRATORY SENSITISATION - Category 1
Skin Corr. 1B, H314	SKIN CORROSION/IRRITATION - Category 1B
Skin Irrit. 2, H315	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1A, H317	SKIN SENSITISATION - Category 1A
Skin Sens. 1B, H317	SKIN SENSITISATION - Category 1B
STOT RE 1, H372	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 1
STOT RE 2, H373	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2
STOT SE 1, H370	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 1
STOT SE 3, H335	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Respiratory tract irritation) - Category 3

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**SECTION 16: Other information**

STOT SE 3, H336

SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE  
(Narcotic effects) - Category 3

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**Notice to reader**

**IMPORTANT NOTE** *The information in this data sheet is not intended to be exhaustive and is based on the present state of our knowledge and on current laws: any person using the product for any purpose other than that specifically recommended in the technical data sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so at his own risk. It is always the responsibility of the user to take all necessary steps to fulfill the demands set out in the local rules and legislation. Always read the Material Data Sheet and the Technical Data Sheet for this product if available. All advice we give or any statement made about the product by us (whether in this data sheet or otherwise) is correct to the best of our knowledge but we have no control over the quality or the condition of the substrate or the many factors affecting the use and application of the product. Therefore, unless we specifically agree in writing otherwise, we do not accept any liability whatsoever for the performance of the product or for any loss or damage arising out of the use of the product. All products supplied and technical advice given are subject to our standard terms and conditions of sale. You should request a copy of this document and review it carefully. The information contained in this data sheet is subject to modification from time to time in the light of experience and our policy of continuous development. It is the user's responsibility to verify that this data sheet is current prior to using the product.*

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