

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 15.09.2011

Version number 8

Revision: 15.09.2011

* 1 Identification of the substance/mixture and of the company/undertaking

- **1.1 Product identifier** Reagent for water analysis
- **Product name:** Vario Am Diluent Reagent HR
- **Catalog number:** 531140, 00531149
- **1.2 Details of the supplier of the safety data sheet**
- **Supplier:**
Tintometer GmbH
Schleefstr. 8-12
DE-44287 Dortmund
Made in Germany
www.lovibond.com
- **Informing department:**
e-mail: produktsicherheit@tintometer.de
Product Safety Department
- **Contact for technical details:**
Technical Department
e-mail: technik@tintometer.de
- **1.3 Emergency telephone number:**
Poison Center Berlin, Germany
phone: 0049-30 30686 790



phone: +49 (0) 231 945100
E-Mail: sales@tintometer.de

2 Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**
The product is not classified as hazardous according to the CLP regulation.
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC** Void
- **Information concerning particular hazards for human and environment:**
The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" (1999/45/EC) in the latest valid version.
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008** Void
- **Hazard pictograms** Void
- **Signal word** Void
- **Hazard statements** Void

* 3 Composition/information on ingredients

- **3.1 Chemical characterization: Substances** aqueous solution
- **3.2 Chemical characterization: Mixtures**

· Dangerous components:		
CAS: 7732-18-5 EINECS: 231-791-2	water, distilled, conductivity or of similar purity	> 99%
CAS: 1310-73-2 EINECS: 215-185-5 Index number: 011-002-00-6	sodium hydroxide  C R35  Met. Corr.1, H290; Skin Corr. 1A, H314	< 1%

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· **REACH - Pre-registered substances** All components are REACH pre-registered.

* 4 First aid measures

· **4.1 Description of first aid measures**

· **General information** Instantly remove any clothing soiled by the product.

· **After inhalation** Supply fresh air.

· **After skin contact** Instantly wash with water and soap and rinse thoroughly.

· **After eye contact**

Rinse opened eye for several minutes under running water (at least 15 minutes). If symptoms persist, consult doctor.

· **After swallowing**

Rinse out mouth and then drink 1-2 glasses of water.

In case of persistent symptoms consult doctor.

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

After swallowing of large amounts:

general feeling of sickness

· **Indication of any immediate medical attention and special treatment needed** No further relevant information available.

5 Firefighting measures

· **5.1 Extinguishing media**

· **Suitable extinguishing agents** Use fire fighting measures that suit the environment.

· **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 breathing apparatus.

Wear full protective suit.

· **Additional information**

Ambient fire may liberate hazardous vapours.

Collect contaminated fire fighting water separately. It must not enter drains.

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

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 product to reach sewage system or water bodies.

Dilute with much water.

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

Dispose of contaminated material as waste according to item 13.

Ensure adequate ventilation.

Absorb with liquid-binding material (sand, diatomite, universal binders).

· **6.4 Reference to other sections** No dangerous materials are released.

* 7 Handling and storage

· **Handling**

· **7.1 Precautions for safe handling** No special measures required.

· **Information about protection against explosions and fires:** The product is not flammable

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- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and containers:** Store in cool location.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
 - Protect from heat and direct sunlight.
 - Protect from humidity and keep away from water.
 - Protect from the effects of light.
- **Recommended storage temperature:** 20°C +/- 5°C
- **Storage class 12**
- **7.3 Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **8.1 Control parameters**
- **Components with limit 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.
- **Additional information:** The lists that were valid during the compilation were used as basis.
- **8.2 Exposure controls**
- **Personal protective equipment**
- **General protective and hygienic measures**
 - Wash hands during breaks and at the end of the work.
 - Do not eat, drink or smoke while working.
- **Breathing equipment:** Use breathing protection against the effects of fumes/dust/aerosol.
- **Recommended filter device for short term use:** Filter A
- **Protection of hands:** Preventive skin protection by use of skin-protecting agents is recommended.
- **Material of gloves**
 - nitrile rubber, NBR
 - Recommended thickness of the material: ≥ 0.11 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.
 - Value for the permeation: Level ≥ 1 (>10 min)
- **Eye protection:**
 - use against the effects of fumes / dust
 - Safety glasses
- **Body protection:** Protective work clothing.

9 Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· Appearance:

Form:	Fluid
Colour:	Colourless
Odour:	Odourless

· **pH-value at 20°C:** 10.2

· **Melting point/Melting range:** 0°C

· **Boiling point/Boiling range:** 100°C

· **Flash point:** Not applicable

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· Danger of explosion:	Product is not explosive.
· Density at 20°C	1 g/cm ³
· Solubility in / Miscibility with Water:	Fully miscible
· Solvent content:	
Organic solvents:	0.0 %
Water:	> 98 %
Solids content:	< 1 %
· 9.2 Other information	No further relevant information available.

10 Stability and reactivity

- **Reactivity**
- **Thermal decomposition / conditions to be avoided:** To avoid thermal decomposition do not overheat.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:**
 - acids
 - zinc
- **Hazardous decomposition products:** see chapter 5

*11 Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity:** Quantitative data on the toxicity of the preparation are not available.
- **Primary irritant effect:**
 - **on the skin:** slight irritations possible
 - **on the eye:** slight irritations possible
- **Sensitization:** No sensitizing effect known.
- **Subacute to chronic toxicity:** chronic: dermatitis
- **Additional toxicological information:**
 - The product is not subject to classification according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version.
 - The usual precautionary measures should be adhered to general rules for handling chemicals.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)** no data available

12 Ecological information

- **12.1 Toxicity**
- **Acquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **Other information:** Quantitative data on the ecological effect of this product are not 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:** Harmful effect due to pH shift.

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· Additional ecological information:
· General notes:

Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms.

Mixture: Generally not hazardous for water.

· 12.5 Results of PBT and vPvB assessment no data available

· vPvB assessments: no data available

· 12.6 Other adverse effects No further relevant information available.

13 Disposal considerations

· 13.1 Waste treatment methods
· Recommendation

Small amounts may be diluted with plenty of water and washed away. Dispose of bigger amounts in accordance with Local Authority requirements.

· European waste catalogue

16 05 09	discarded chemicals other than those mentioned in 16 05 06, 16 05 07 or 16 05 08
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· Uncleaned packagings:
· Recommendation: Disposal must be made according to official regulations.

· Recommended cleaning agent: Water, if necessary with cleaning agent.

14 Transport information

· 14.1 UN-Number

· ADR, ADN, IMDG, IATA	Void
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· 14.2 UN proper shipping name

· ADR, ADN	Void
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· 14.3 Transport hazard class(es)

· ADR, ADN, IMDG, IATA	
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· Class	Void
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· 14.4 Packing group

· ADR, IMDG, IATA	Void
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· 14.5 Environmental hazards:

· Marine pollutant:	No
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· 14.6 Special precautions for user

Not applicable.

· 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

· Transport/Additional information:

Not dangerous according to the above specifications.
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15 Regulatory information

· 15.4 Safety, health and environmental regulations/legislation specific for the substance or mixture
· National regulations
· Information about limitation of use: Not required.

· Water hazard class: Generally not hazardous for water.

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- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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.

- **Relevant phrases**

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

R35 Causes severe burns.

- **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

ICAO: International Civil Aviation Organization

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

- **Sources** Data arise from reference works and literature.

- *** Data compared to the previous version altered.**