

Safety Data Sheet

according to 1907/2006/EC, Article 31


Printing date 04.09.2015

Revision: 04.09.2015

1 Identification of the substance/preparation and of the company/undertaking

- **Product details**
- **Trade name:** Water Test Solution
- **Application of the substance / the preparation:** Laboratory chemicals
- **Supplier:**
 ZEMATRA bv
 Steenspil 28
 4661 TZ Halsteren
 The Netherlands
 tel.: +31 164 687770
 Fax.: +31 164 680512
 E-mail: info@zematra.com
 www.zematra.com
- **Further information obtainable from:** product safety department
- **Information in case of emergency:** Supplier: Zematra bv


2 Hazards identification

- **Classification of the substance or mixture**
Classification according to Regulation (EC) No 1272/2008
 Substances and mixtures, which in contact with water, emit flammable gases (Category 1), H260
 For the full text of the H-Statements mentioned in this Section, see Section 16.
Classification according to EU Directives 67/548/EEC or 1999/45/EC
 F Highly flammable R15
 For the full text of the R-phrases mentioned in this Section, see Section 16.
- **Label elements**
Labeling according Regulation (EC) No 1272/2008
 Pictogram
 Signal word Danger 
 Hazard statement(s)
 H260 In contact with water releases flammable gases which may ignite spontaneously
 Precautionary statement(s)
 P223 Do not allow contact with water.
 P231 + P232 Handle under inert gas. Protect from moisture.
 P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

3 Composition/information on ingredients

- **Chemical characterization**
- **Description:** Dispersion of calcium hydride in paraffin oil

- **Dangerous components:**

CAS: 7789-78-8 EINECS: 232-189-2	calcium hydride	 F; R 15	30%
CAS: 8012-95-1 EINECS: 232-384-2	Paraffin oils		70%

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

4 First-aid measures

- **After inhalation:** Supply fresh air or oxygen; call for doctor.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:** Rinse opened eye for several minutes under running water.

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- **After swallowing:** Do not induce vomiting; call for medical help immediately.

5 Fire-fighting measures

- **Suitable extinguishing agents:**
CO₂, sand, extinguishing powder. Do not use water.
Use fire extinguishing methods suitable to surrounding conditions.
- **For safety reasons unsuitable extinguishing agents:** Water
- **Protective equipment:** No special measures required.

6 Accidental release measures

- **Person-related safety precautions:** Wear protective equipment. Keep unprotected persons away.
- **Measures for environmental protection:**
Prevent seepage into sewage system, workpits and cellars.
Do not allow to enter sewers/ surface or ground water.
- **Measures for cleaning/collecting:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Ensure adequate ventilation.
Do not flush with water or aqueous cleansing agents
Dispose of the material collected according to regulations.

7 Handling and storage

- **Handling:**
- **Information for safe handling:** Work only in fume cupboard.
- **Information about fire - and explosion protection:** Keep ignition sources away - Do not smoke.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.
- **Information about storage in one common storage facility:** Storage as usual for laboratory reagents.
- **Further information about storage conditions:** Store in cool, dry conditions in well sealed receptacles.

8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.

- **Ingredients with limit values that require monitoring at the workplace:**

8012-95-1 Paraffin oils	
OEL (Great Britain)	Long-term value: 5 mg/m ³
7789-78-8 calcium hydride	
OEL (Great Britain)	Long-term value: 5 mg/m ³

- **Additional information:** The lists valid during the making were used as basis.

- **Personal protective equipment:**
- **General protective and hygienic measures:**
The usual precautionary measures are to be adhered to when handling chemicals.
- **Respiratory protection:** Not required.

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· **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

· **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.

· **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.

· **Eye protection:** Safety glasses

9 Physical and chemical properties

· **General Information**

Form:	Fluid
Colour:	According to product specification
Odour:	Characteristic

· **Change in condition**

Boiling point/Boiling range: > 200°C

· **Flash point:** 215°C

· **Self-igniting:** Product is not selfigniting.

· **Danger of explosion:** Product does not present an explosion risk but in contact with water it liberates highly flammable gases.

· **Density at 20°C:** 0.87 g/cm³

· **Solubility in / Miscibility with water:** Not miscible or difficult to mix.

· **Solvent content:**

Organic solvents: 0.0 %

· **Solids content:** 30.0 %

10 Stability and reactivity

· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

· **Materials to be avoided:** Acids, acid anhydrides, oxidising agents, alcohols, water.

· **Dangerous reactions** Contact with water releases flammable gases.

· **Dangerous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

· **Acute toxicity:**

· **LD/LC50 values relevant for classification:**

Oral	LD50	3900 mg/kg (mouse)
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- **Primary irritant effect:**
- **on the skin:** Irritating effect
- **on the eye:** Irritating effect.
- **Sensitization:** No sensitizing effects known.

12 Ecological information

- **General notes:**
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

13 Disposal considerations

- **Product:**
- **Recommendation**
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- **Land transport ADR/RID (cross-border)**



- **ADR/RID class:** 4.3 (3148) Substances which, in contact with water, emit flammable gases.
- **UN-Number:** 3148
- **Packaging group:** I
- **Description of goods:** 3148 WATER-REACTIVE LIQUID, N.O.S. (calciumhydride mixture)

- **Maritime transport IMDG:**
- **IMDG Class:** 4.3 PG: I
- **UN Number:** 3148
- **Marine pollutant:** No
- **Proper shipping name:** WATER-REACTIVE LIQUID, N.O.S. (calciumhydride mixture)

- **Air transport ICAO-TI and IATA-DGR:**
- **ICAO/IATA Class:** 4.3 PG: I
- **UN/ID Number:** 3148
- **Proper shipping name:** WATER-REACTIVE LIQUID, N.O.S. (calciumhydride mixture)
- **Remarks:** P.I. -PAX: Forbidden
P.I.-CAO: refer to IATA dangerous goods regulations.

15 Regulatory information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
No data available
- **Labelling according to EU guidelines:**
The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

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- **National regulations:**
- **Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.**

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.

- **Department issuing MSDS:** Environment protection department.
- **Full text of H-Statements referred to under sections 2 and 3.**

H260 *In contact with water releases flammable gases which may ignite spontaneously.*

Full text of R-phrases referred to under sections 2 and 3.

R15 *Contact with water liberates extremely flammable gases.*