

06/24/2008

Kit ingredients

Product: Wizard® SV 96 Neutralization Solution

Product code: A1481

| Substance number | Description | Count | Symbols |
|-------------------------|-------------------------------|--------------|----------------|
| A148 | Neutralization Solution (NSA) | 1 | Xn |

Safety Data Sheet
according to 1907/2006/EC, Article 31

Printing date 24.06.2008

Revision: 24.06.2008

* **1 Identification of substance**

Trade name: Neutralization Solution (NSA)

Article number: A148

Application of the substance / the preparation: Laboratory chemicals

Manufacturer/Supplier:

Promega Corporation
2800 Woods Hollow Road
Madison, WI 53711
U.S.A.
1-608-274-4330
1-800-356-9526

MSDS author: Regulatory.Affairs@promega.com

Further information obtainable from:

Promega UK Ltd.
Delta House
Southampton Science Park
Southampton SO16 7NS
UNITED KINGDOM
Tel: (44) 23 8076 0225
Fax: (44) 23 8076 7014
FREEPHONE: 0800 378994
E-mail Address: ukcustserve@promega.com
Web Address: www.promega.com/uk/

Information in case of emergency:

CHEMTREC 1-800-424-9300

For call originating outside the United States dial 001-703-527-3887

* **2 Hazards identification**

Hazard description:



Xn Harmful

Information concerning to particular hazards to man and environment

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

R 22 Harmful if swallowed.

R 36/38 Irritating to eyes and skin.

Classification system:

The classification is in line with current EC lists. It is extended, by information from technical literature and company information.

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3 Composition/information on ingredients

Chemical characterization

Description: Mixture of substances listed below with nonhazardous additions.

Components:

| | | | |
|-------------------|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| CAS: 50-01-1 | guanidinium chloride |  Xn,  Xi; R 22-36/38 | 25-50% |
| EINECS: 200-002-3 | | | |
| | acetic acid |  C; R 35 | 10-15% |

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

4 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: In case of unconsciousness place patient stably in side position for transportation.

After skin contact: Immediately wash with soap, water and rinse thoroughly.

After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing: Call for a doctor immediately.

5 Fire fighting measures

Suitable extinguishing agents:

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

6 Accidental release measures

Person-related safety precautions: Not required.

Measures for environmental protection: 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).

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

7 Handling and storage

Handling

Information for safe handling:

Keep receptacles tightly sealed.

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

No special precautions are necessary if used correctly.

Information about fire - and explosion protection: No special measures required.

Storage

Requirements to be met by storerooms and receptacles: No special requirements.

Information about storage in one common storage facility: Not required.

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Further information about storage conditions: Keep receptacle tightly sealed.

8 Exposure controls and personal protection gear

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

Ingredients 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 valid during the making were used as basis.

Personal protective equipment

General protective and hygienic measures

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Protection of hands:

Protective gloves.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

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: Tightly sealed goggles.

9 Physical and chemical properties

General Information

| | |
|----------------|----------------|
| Form: | Fluid |
| Colour: | Colourless |
| Odour: | Characteristic |

Change in condition

Melting point/Melting range: undetermined

Boiling point/Boiling range: 100°C

Flash point: Not applicable

Ignition temperature: 485°C

Self-igniting: Product is not selfigniting.

Danger of explosion: Product does not present an explosion hazard.

Explosion limits:

Lower: 4.0 Vol %

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| | |
|------------------------------------------------|----------------------------------|
| Upper: | 17.0 Vol % |
| Vapour pressure at 20°C: | 16 hPa |
| Density at 20°C: | 1.10895 g/cm ³ |
| Solubility in / Miscibility with Water: | Not miscible or difficult to mix |
| pH-value at 20°C: | 4.0 |
| Solvent content: | |
| Organic solvents: | 12.7 % |
| Water: | 40.8 % |
| Solids content: | 46.5 % |

10 Stability and reactivity

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

Dangerous reactions:

Reacts with strong oxidizing agents

Reacts with strong acids and oxidizing agents

Dangerous decomposition products:

Carbon monoxide and carbon dioxide

Hydrogen chloride (HCl)

11 Toxicological information

Acute toxicity:

LD/LC50 values relevant for classification:

50-01-1 guanidinium chloride

| | | |
|--------------------|-------|-----------------|
| Oral | LD50 | 475 mg/kg (Rat) |
| Irritation of eyes | acute | 500 mg (Rabbit) |

Primary irritant effect:

on the skin: Irritant to skin and mucous membranes.

on the eye: Irritating effect.

Sensitization: No sensitizing effects known.

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

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.

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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

Contact Promega Safety Department for additional transport information.

Land transport ADR/RID (cross-border)

ADR/RID class: --- (---)

Not regulated

UN-Number:

Hazard label Not regulated

Maritime transport IMDG:

Marine pollutant: No

15 Regulations

Labelling according to EU guidelines:

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials

Hazard-determining components of labelling:

guanidinium chloride

Risk phrases:

22 Harmful if swallowed.

36/38 Irritating to eyes and skin.

Safety phrases:

23 Do not breathe fumes/aerosol.

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

36/37 Wear suitable protective clothing and gloves.

60 This material and its container must be disposed of as hazardous waste.

National regulations**Technical instructions (air):**

| Class | Share in % |
|-------|------------|
| Water | 40.8 |
| II | 12.7 |

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Waterhazard 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.

Relevant R-phrases

- 22 Harmful if swallowed.
- 35 Causes severe burns.
- 36/38 Irritating to eyes and skin.

Department issuing MSDS:

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2800 Woods Hollow Road
Madison, WI 53711
U.S.A.

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