

# Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 07/14/2010

Reviewed on 07/14/2010

## 1 Identification of substance

### Product details

**Trade name:** PS-22 TEST SOLUTION

Application of the substance / the preparation: Test solution

### Manufacturer/Supplier:

Kester  
 800 West Throntdale Ave.  
 Itasca, IL 60143  
 Tel (630) 616-4000  
 Fax (630) 616-4044

### Information department:

MSDS Coordinator (630) 616-6844

### Emergency information:

CHEMTREC 24-Hour Emergency Response Telephone Number : (800) 424-9300

CHEMTREC 24-Hour Emergency Response (Outside US & Canada) Telephone Number : (703) 527-3887

## 2 Hazards identification

**Hazard description:** Not applicable.

### Information pertaining to particular dangers for man and environment:

The product does not have to be labelled due to the calculation procedure of international guidelines.

### NFPA ratings (scale 0 - 4)



Health = 1  
 Fire = 0  
 Reactivity = 0

### HMIS-ratings (scale 0 - 4)




HEALTH 1 Health = 1  
 FIRE 0 Fire = 0  
 REACTIVITY 0 Reactivity = 0

GHS label elements Void

## 3 Composition / Information on ingredients

### Chemical characterization

**Description:** Mixture of the substances listed below with nonhazardous additions.

CAS No.	Description		% Range
1310-73-2	sodium hydroxide	Danger:  3.2/1A	≤ 2.5%
7732-18-5	water, distilled, conductivity or of similar purity		50-100%

## 4 First aid measures

**After inhalation:** Supply fresh air; consult doctor in case of complaints.

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**After skin contact:** *Immediately wash with water and soap and rinse thoroughly.***After eye contact:** *Rinse opened eye for several minutes under running water.***After swallowing:** *Seek immediate medical advice.*

## 5 Fire fighting measures

**Suitable extinguishing agents:***CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.***Protective equipment:** *Wear self-contained respiratory protective device.*

## 6 Accidental release measures

**Person-related safety precautions:** *Ensure adequate ventilation***Measures for environmental protection:** *Do not allow product to reach sewage system or any water course.***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.*

## 7 Handling and storage

**Handling:****Information for safe handling:** *Ensure good ventilation/exhaustion at the workplace.***Information about protection against explosions and fires:** *Keep respiratory protective device available.***Storage:****Requirements to be met by storerooms and receptacles:** *No special requirements.***Information about storage in one common storage facility:** *Not required.***Further information about storage conditions:***Protect from frost.**Store in cool, dry conditions in well sealed receptacles.*

## 8 Exposure controls and personal protection

**Additional information about design of technical systems:** *No further data; see item 7.***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:***PEL = Permissible Exposure Limit (OSHA)**REL = Recommended Exposure Limit (NIOSH)**TLV = Threshold Limit Value (ACGIH)**OSHA = Occupational Safety and Health Administration**ACGIH = American Conference of Governmental Industrial Hygienists**NIOSH = National Institute for Occupational Safety and Health*

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**Personal protective equipment:**
**General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

**Breathing equipment:**

When ventilation is not sufficient to remove fumes from the breathing zone, a safety approved respirator or self-contained breathing apparatus should be worn.

**Protection of hands:**


Protective gloves

**Material of gloves:**

Nitrile rubber, NBR

Natural rubber, NR

**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**

<b>Form:</b>	Liquid
<b>Color:</b>	Colorless
<b>Odor:</b>	Odorless

**Change in condition**
**Melting point/Melting range:** 0°C (32°F)

**Boiling point/Boiling range:** 100°C (212°F)

**Flash point:** Not applicable.

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

**Density at 20°C (68°F):** 1 g/cm<sup>3</sup>
**Solubility in / Miscibility with Water:** Fully miscible.

**pH-value at 20°C (68°F):** 11.5

## 10 Stability and reactivity

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

**Materials to be avoided:** Strong acids, strong oxidizers.

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**Dangerous reactions** *No dangerous reactions known.***Dangerous products of decomposition:** *No dangerous decomposition products known.*

## 11 Toxicological information

**Acute toxicity:****Primary irritant effect:***on the skin: Irritant to skin and mucous membranes.**on the eye: Irritating effect.**through inhalation: May cause respiratory irritation.**through ingestion: May cause gastrointestinal irritation.***Sensitization:** *No sensitizing effects known.*

## 12 Ecological information

**General notes:** *Generally not hazardous for water*

## 13 Disposal considerations

**Product:****Recommendation:** *Disposal must be made according to official regulations.***Uncleaned packagings:****Recommendation:** *Disposal must be made according to official regulations.***Recommended cleansing agent:** *Water, if necessary with cleansing agents.*

## 14 Transport information

**DOT regulations:****Hazard class:** -  
*Not regulated.***Land transport ADR/RID (cross-border):****ADR/RID class:** -  
*Not regulated.***Maritime transport IMDG:****IMDG Class:** -  
*Not regulated.***Air transport ICAO-TI and IATA-DGR:****ICAO/IATA Class:** -  
*Not regulated.*

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**UN "Model Regulation": -**

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**15 Regulations**

*USA The following information relates to product regulation specific to the USA.*

**SARA (Superfund Amendments and Reauthorization Act)**

*Section 355 (extremely hazardous substances):*

*None of the ingredient is listed.*

*Section 313 (Specific toxic chemical listings):*

*None of the ingredients is listed.*

**TSCA (Toxic Substances Control Act): Kester certifies that all components listed below for the subject finished product are on the TSCA Inventory of Chemical Substances and are not subject to any chemical specific regulation under TSCA Section 12(b) export notification requirements delineated at 40 CFR part 707, subpart D.**

7732-18-5	water, distilled, conductivity or of similar purity
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1310-73-2	sodium hydroxide
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**California Proposition 65**

*Chemicals known to cause cancer:*

*None of the ingredients is listed.*

*Chemicals known to cause reproductive toxicity:*

*None of the ingredients is listed.*

**Carcinogenicity categories**

*EPA (Environmental Protection Agency)*

*None of the ingredients is listed.*

*IARC (International Agency for Research on Cancer)*

*None of the ingredients is listed.*

*NTP (National Toxicology Program)*

*None of the ingredients is listed.*

*NIOSH-Ca (National Institute for Occupational Safety and Health)*

*None of the ingredients is listed.*

*OSHA-Ca (Occupational Safety & Health Administration)*

*None of the ingredients is listed.*

*CANADA: The following information relates to product regulation specific to Canada.*

**Workplace Hazardous Materials Identification (WHMIS):**

*The product is not subject to identification regulations according to directives on hazardous materials.*

**Components on Ingredient List for WHMIS:** *Not applicable.*

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### 16 Other information

*The information contained herein is based on data considered accurate and is offered solely for information, consideration and investigation. Kester extends no warranties, makes no representations and assumes no responsibility as to the accuracy, completeness or suitability of this data for any purchaser's use. The data on this Material Safety Data Sheet relates only to this product and does not relate to use with any other material or in any process. All chemical products should be used only by, or under the direction of, technically qualified personnel who are aware of the hazards involved and the necessity for reasonable care in handling. Hazard communication regulations require that employees must be trained on how to use a Material Safety Data Sheet as a source for hazard information.*

#### **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*

*DOT: US Department of Transportation*

*IATA: International Air Transport Association*

*IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)*

*ICAO: International Civil Aviation Organization*

*ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)*

*GHS: Globally Harmonized System of Classification and Labelling of Chemicals*

*NFPA: National Fire Protection Association (USA)*

*HMIS: Hazardous Materials Identification System (USA)*