

1 Identification of substance


- **Product details**
 - **Trade name:** 1000 mg/L CHEC00
 - **Article number:** AS-ACE9-2Y
 - **Application of the substance / the preparation:** Certified Reference Material
- **Manufacturer/supplier:**
 - SP EX Ce ntr ep
 - 203 Norcross Avenue
 - Metuchen, NJ 08840
 - USA
- **Information department:** product safety department
- **Emergency information:**
 - Emergency Phone Number (24 hours)
 - CHEMTREC (800-424-9300)
 - Outside US: 703-527-3867

2 Composition/Data on components

- **Chemical characterization**
 - **Description:** Mixture of the substances listed below with nonhazardous additions.
 - **Dangerous components:** Void
- **Chemical identification of the substance/preparation**

7732-18-5	water, distilled, conductivity of 0 similar purity	99,9%
631-90-1	Sodium Acetate	0,1%

3 Hazards identification

- **Hazard description:**
 -  Irritant
 - **Information pertaining to particular dangers for man and environment:**
 - The product has to be labelled due to the calculation procedure of international guidelines.
 - May cause sensitisation by skin contact.
 - **Classification system:**
 - The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.
 - **NFPA ratings (scale 0 - 4)**

0	0	0
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Health = 0
Fire = 0
Reactivity = 0
 - **HMS-ratings (scale 0 - 4)**

0	0	0
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HEALTH = 0 Health = 0
FIRE = 0 Fire = 0
REACTIVITY = 0 Reactivity = 0
 - **GHS label elements**
 - **Warning**
 - 3.2B - Causes mild skin irritation.
 - **Prevention:**
 - P201 - Read thoroughly after handling.
 - **First aid measures:**
 - P301-P330: Rinse continuously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 - **Accidental release measures:**
 - P501: If skin irritation occurs: Get medical advice/attention.
 - If eye irritation persists: Get medical advice/attention.

4 First aid measures

- **After inhalation:**
 - Supply fresh air and to be sure call for a doctor.

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- In case of unconsciousness place patient safely in side position for transportation.
- **After skin contact:** Immediately wash thoroughly with soap and running water.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** If symptoms persist consult doctor.

5 Fire fighting measures

- **Suitable extinguishing agents:** CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Protective equipment:** No special measures required.


6 Accidental release measures

- **Person-related safety precautions:** Not required.
- **Measures for environmental protection:** Dilute with plenty of water.
- **Measures for cleaning/collecting:** Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sand/silica).

7 Handling and storage

- **Handling:**
 - **Information for safe handling:** No special requirements.
 - **Information about protection against explosions and fires:** 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.
 - **Further information about storage conditions:** None.

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:** The data that were valid during the creation were used as basis.
- **Personal protective equipment:**
 - **General protective and hygienic measures:**
 - Immediately remove all soiled and contaminated clothing.
 - Wash hands before breaks and at the end of work.
 - **Breathing equipment:** Not required.
 - **Protection of hands:**
 -  Protective gloves
 - The glove material has to be impermeable and resistant to the product/the substance/the preparation.
 - Due to missing tests no recommendation to the glove material can be given for the product/the preparation/the chemical mixture.
- **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 to be tested by the manufacturer of the glove material.
 - **Protection of the feet:** No special measures.
- **The exact break down time has to be found out by the manufacturer of the protective gloves and has to be observed.**
- **Eye protection:** Goggles recommended during refilling.

9 Physical and chemical properties

- **General Information**

Form:	Fluid
Color:	Characteristic

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- Change in condition	
Melting point/Bolting range: 0°C (32°F)	
Boiling point/Bolting range: 100°C (212°F)	
- Flash point:	Not applicable.
- Auto lighting:	Product is not selfigniting.
- Danger of explosion:	Product does not present an explosion hazard.
- Vapor pressure at 20°C (68°F): 23 hPa (17 mm Hg)	
- Density at 20°C (68°F): 1 g/cm³	
- Solubility in / Miscibility with Water:	Fully miscible.
- Solvent content:	
Organic solvents: 0.0 %	
Water: 99.9 %	

10 Stability and reactivity

- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- 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: No irritant effect.
 - on the eye: No irritating effect.
- Sensitization: Sensitization possible through skin contact.
- Additional toxicological information:
 - The product shows the following dangers according to internally approved calculation methods for preparations:
Irritant

12 Ecological information

- General notes: Generally not hazardous for water

13 Disposal considerations

- Product:
- Recommendation: Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- 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:
- Land transport ADR/RID (cross-border):
- ADR/RID class:
- Maritime transport IMDG:
- IMDG Class:
- Marine pollutant: No
- Air transport ICAO-TI and IATA-DGR:
- ICAO/IATA Class:

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- UN "Model Regulation":	
15 Regulations	
- Sure	
- Section 335 (extremely hazardous substances):	
None of the ingredients is listed.	
- Section 313 (Specific toxic chemical listings):	
None of the ingredients is listed.	
- TSCA (Toxic Substances Control Act):	
7732-18-5 water, distilled, conductivity or of similar purity	
- Proposition 65	
- Chemicals known to cause cancer:	
None of the ingredients is listed.	
- Chemicals known to cause reproductive toxicity for females:	
None of the ingredients is listed.	
- Chemicals known to cause reproductive toxicity for males:	
None of the ingredients is listed.	
- Chemicals known to cause developmental toxicity:	
None of the ingredients is listed.	
- Carcinogenic 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.	
- TLV (Threshold Limit Value established by ACGIH)	
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.	

- Product related hazard informations: The product has been classified and marked in accordance with directives on hazardous materials.

- Hazard symbols:



Irritant

- Risk phrases:

May cause sensitisation by skin contact.

- Safety phrases:

Wear suitable protective clothing, gloves and eye/face protection.

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: product safety department
- Contact: SPEX Corp/ProP Inc. 732-540-7144
- 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)
 - DGT: US Department of Transportation
 - IMDG: International Maritime Dangerous Goods
 - IATA: International Air Transport Association

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Material Safety Data Sheet
acc. to ISO/DIS 11014

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ATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: 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
ACGIH: American Conference of Governmental Industrial Hygienists
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)

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