



**Neutron<sup>®</sup> Pharmaceutical Co.**  
Manufacturer of Laboratory Chemical & Pharmaceutical Materials

# Hydrogen Peroxide, 3% w/w

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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Version: 1.3

### SECTION 1: Identification

#### 1.1. Identification

Product form : Mixtures  
Product name : Hydrogen Peroxide, 3% w/w  
Product code : 2.3010

#### 1.2. Recommended use and restrictions on use

Use of the substance/mixture : For laboratory and manufacturing use only.  
Recommended use : Laboratory chemicals  
Restrictions on use : Not for food, drug or household use

#### 1.3. Supplier

NEUTRON PHARMACHEMICAL CO  
98, 9th Floor, Borjsaz Building, Azadi Ave, Tehran, Iran.  
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[www.neutronpharmachemical.com](http://www.neutronpharmachemical.com)

#### 1.4. Emergency telephone number

Emergency number : CHEMTREC: 125

### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

##### GHS-US classification

|                                              |      |                           |
|----------------------------------------------|------|---------------------------|
| Skin corrosion/irritation Category 2         | H315 | Causes skin irritation    |
| Serious eye damage/eye irritation Category 1 | H318 | Causes serious eye damage |

Full text of H statements : see section 16

#### 2.2. GHS Label elements, including precautionary statements

##### GHS-US labeling

Hazard pictograms (GHS-US) :



GHS05

Signal word (GHS-US) : Danger  
Hazard statements (GHS-US) : H315 - Causes skin irritation  
H318 - Causes serious eye damage  
Precautionary statements (GHS-US) : P264 - Wash exposed skin thoroughly after handling  
P280 - Wear protective gloves, eye protection  
P302+P352 - IF ON SKIN: Wash with plenty of soap and water  
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P310 - Immediately call a poison center or doctor/physician  
P321 - Specific treatment (see ... on this label)  
P332+P313 - If skin irritation occurs: Get medical advice/attention  
P362+P364 - Take off contaminated clothing and wash it before reuse

#### 2.3. Other hazards which do not result in classification

Other hazards not contributing to the classification : None under normal conditions.

#### 2.4. Unknown acute toxicity (GHS US)

Not applicable

### SECTION 3: Composition/Information on ingredients

#### 3.1. Substances

Not applicable

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### 3.2. Mixtures

| Name                       | Product identifier  | %  | GHS-US classification                                                                                   |
|----------------------------|---------------------|----|---------------------------------------------------------------------------------------------------------|
| Water                      | (CAS-No.) 7732-18-5 | 97 | Not classified                                                                                          |
| Hydrogen Peroxide, 30% w/w | (CAS-No.) 7722-84-1 | 3  | Ox. Liq. 1, H271<br>Acute Tox. 4 (Oral), H302<br>Acute Tox. 4 (Inhalation), H332<br>Skin Corr. 1A, H314 |

Full text of hazard classes and H-statements : see section 16

## SECTION 4: First-aid measures

### 4.1. Description of first aid measures

- First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
- First-aid measures after inhalation : Allow victim to breathe fresh air. Allow the victim to rest.
- First-aid measures after skin contact : Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.
- First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor/physician.
- First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

### 4.2. Most important symptoms and effects (acute and delayed)

- Symptoms/effects after skin contact : Causes skin irritation.
- Symptoms/effects after eye contact : Causes serious eye damage.

### 4.3. Immediate medical attention and special treatment, if necessary

No additional information available

## SECTION 5: Fire-fighting measures

### 5.1. Suitable (and unsuitable) extinguishing media

- Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.
- Unsuitable extinguishing media : Do not use a heavy water stream.

### 5.2. Specific hazards arising from the chemical

No additional information available

### 5.3. Special protective equipment and precautions for fire-fighters

- Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

- Protective equipment : Safety glasses. Gloves.
- Emergency procedures : Evacuate unnecessary personnel.

#### 6.1.2. For emergency responders

- Protective equipment : Equip cleanup crew with proper protection.
- Emergency procedures : Ventilate area.

### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

### 6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

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### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

- Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor.
- Hygiene measures : Wash exposed skin thoroughly after handling.

#### 7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Keep only in the original container in a cool, well ventilated place away from : incompatible materials, combustible materials. Keep container closed when not in use.
- Incompatible products : Strong bases. Strong reducing agents. metals. combustible materials.
- Incompatible materials : Sources of ignition. Direct sunlight.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

| Hydrogen Peroxide, 30% w/w (7722-84-1) |                                      |                       |
|----------------------------------------|--------------------------------------|-----------------------|
| ACGIH                                  | ACGIH TWA (mg/m <sup>3</sup> )       | 1.4 mg/m <sup>3</sup> |
| ACGIH                                  | ACGIH TWA (ppm)                      | 1 ppm                 |
| OSHA                                   | OSHA PEL (TWA) (mg/m <sup>3</sup> )  | 1.4 mg/m <sup>3</sup> |
| OSHA                                   | OSHA PEL (TWA) (ppm)                 | 1 ppm                 |
| IDLH                                   | US IDLH (ppm)                        | 75 ppm                |
| NIOSH                                  | NIOSH REL (TWA) (mg/m <sup>3</sup> ) | 1.4 mg/m <sup>3</sup> |
| NIOSH                                  | NIOSH REL (TWA) (ppm)                | 1 ppm                 |
| Water (7732-18-5)                      |                                      |                       |
| Not applicable                         |                                      |                       |

#### 8.2. Appropriate engineering controls

- Appropriate engineering controls : Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure.

#### 8.3. Individual protection measures/Personal protective equipment

##### Personal protective equipment:

Face shield. Gloves. Safety glasses.



##### Hand protection:

Wear protective gloves

##### Eye protection:

Chemical goggles or safety glasses

##### Skin and body protection:

Wear suitable protective clothing

##### Respiratory protection:

Respiratory protection not required in normal conditions

##### Other information:

Do not eat, drink or smoke during use.

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### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

|                                             |                     |
|---------------------------------------------|---------------------|
| Physical state                              | : Liquid            |
| Color                                       | : Colorless         |
| Odor                                        | : None.             |
| Odor threshold                              | : No data available |
| pH                                          | : No data available |
| Melting point                               | : No data available |
| Freezing point                              | : No data available |
| Boiling point                               | : No data available |
| Flash point                                 | : No data available |
| Relative evaporation rate (butyl acetate=1) | : No data available |
| Flammability (solid, gas)                   | : Non flammable.    |
| Vapor pressure                              | : No data available |
| Relative vapor density at 20 °C             | : No data available |
| Relative density                            | : No data available |
| Specific gravity / density                  | : 1                 |
| Solubility                                  | : Soluble in water. |
| Log Pow                                     | : No data available |
| Auto-ignition temperature                   | : No data available |
| Decomposition temperature                   | : No data available |
| Viscosity, kinematic                        | : No data available |
| Viscosity, dynamic                          | : No data available |
| Explosion limits                            | : No data available |
| Explosive properties                        | : No data available |
| Oxidizing properties                        | : No data available |

#### 9.2. Other information

No additional information available

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No additional information available

#### 10.2. Chemical stability

Unstable on exposure to light.

#### 10.3. Possibility of hazardous reactions

Not established.

#### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

#### 10.5. Incompatible materials

Strong reducing agents. Strong bases. metals. combustible materials.

#### 10.6. Hazardous decomposition products

oxygen.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

|                           |                                    |
|---------------------------|------------------------------------|
| Likely routes of exposure | : Inhalation; Skin and eye contact |
| Acute toxicity            | : Not classified                   |

#### Hydrogen Peroxide, 30% w/w (7722-84-1)

|                |                       |
|----------------|-----------------------|
| ATE US (oral)  | 500 mg/kg body weight |
| ATE US (gases) | 4500 ppmV/4h          |

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| Hydrogen Peroxide, 30% w/w (7722-84-1) |                              |
|----------------------------------------|------------------------------|
| ATE US (vapors)                        | 11 mg/l/4h                   |
| ATE US (dust, mist)                    | 1.5 mg/l/4h                  |
| Water (7732-18-5)                      |                              |
| LD50 oral rat                          | ≥ 90000 mg/kg                |
| ATE US (oral)                          | 90000 mg/kg body weight      |
| Skin corrosion/irritation              | : Causes skin irritation.    |
| Serious eye damage/irritation          | : Causes serious eye damage. |
| Respiratory or skin sensitization      | : Not classified             |
| Germ cell mutagenicity                 | : Not classified             |
| Carcinogenicity                        | : Not classified             |

| Hydrogen Peroxide, 30% w/w (7722-84-1)              |                                                                     |
|-----------------------------------------------------|---------------------------------------------------------------------|
| IARC group                                          | 3 - Not classifiable                                                |
| Reproductive toxicity                               | : Not classified                                                    |
| Specific target organ toxicity – single exposure    | : Not classified                                                    |
| Specific target organ toxicity – repeated exposure  | : Not classified                                                    |
| Aspiration hazard                                   | : Not classified                                                    |
| Potential Adverse human health effects and symptoms | : Based on available data, the classification criteria are not met. |
| Symptoms/effects after skin contact                 | : Causes skin irritation.                                           |
| Symptoms/effects after eye contact                  | : Causes serious eye damage.                                        |

## SECTION 12: Ecological information

### 12.1. Toxicity

No additional information available

### 12.2. Persistence and degradability

| Hydrogen Peroxide, 3% w/w              |                  |
|----------------------------------------|------------------|
| Persistence and degradability          | Not established. |
| Hydrogen Peroxide, 30% w/w (7722-84-1) |                  |
| Persistence and degradability          | Not established. |
| Water (7732-18-5)                      |                  |
| Persistence and degradability          | Not established. |

### 12.3. Bioaccumulative potential

| Hydrogen Peroxide, 3% w/w              |                  |
|----------------------------------------|------------------|
| Bioaccumulative potential              | Not established. |
| Hydrogen Peroxide, 30% w/w (7722-84-1) |                  |
| Bioaccumulative potential              | Not established. |
| Water (7732-18-5)                      |                  |
| Bioaccumulative potential              | Not established. |

### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

|                              |                                       |
|------------------------------|---------------------------------------|
| Effect on the global warming | : No known effects from this product. |
| GWPmix comment               | : No known effects from this product. |
| Other information            | : Avoid release to the environment.   |

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### SECTION 13: Disposal considerations

#### 13.1. Disposal methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.  
Ecology - waste materials : Avoid release to the environment.

### SECTION 14: Transport information

#### Department of Transportation (DOT)

In accordance with DOT  
Not regulated

### SECTION 15: Regulatory information

#### 15.1. US Federal regulations

##### Hydrogen Peroxide, 3% w/w

|                                     |                                 |
|-------------------------------------|---------------------------------|
| SARA Section 311/312 Hazard Classes | Immediate (acute) health hazard |
|-------------------------------------|---------------------------------|

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

##### Hydrogen Peroxide, 30% w/w (7722-84-1)

|                                     |                                                    |
|-------------------------------------|----------------------------------------------------|
| SARA Section 311/312 Hazard Classes | Reactive hazard<br>Immediate (acute) health hazard |
|-------------------------------------|----------------------------------------------------|

#### 15.2. International regulations

##### CANADA

No additional information available

##### EU-Regulations

No additional information available

##### National regulations

No additional information available

#### 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

### SECTION 16: Other information

Revision date : 10/31/2017  
Other information : None.

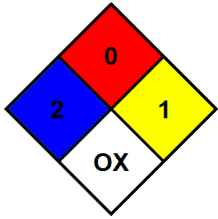
Full text of H-phrases: see section 16:

|      |                                              |
|------|----------------------------------------------|
| H271 | May cause fire or explosion; strong oxidizer |
| H302 | Harmful if swallowed                         |
| H314 | Causes severe skin burns and eye damage      |
| H315 | Causes skin irritation                       |
| H318 | Causes serious eye damage                    |
| H332 | Harmful if inhaled                           |

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|                      |                                                                                                                                                                                                                                                |                                                                                     |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| NFPA health hazard   | : 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.                                                                                                                                       |  |
| NFPA fire hazard     | : 0 - Materials that will not burn under typical dire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.                                                                                          |                                                                                     |
| NFPA reactivity      | : 1 - Materials that in themselves are normally stable but can become unstable at elevated temperatures and pressures.                                                                                                                         |                                                                                     |
| NFPA specific hazard | : OX - Materials that posses oxidizing properties.                                                                                                                                                                                             |                                                                                     |
| Hazard Rating        |                                                                                                                                                                                                                                                |                                                                                     |
| Health               | : 2 Moderate Hazard - Temporary or minor injury may occur                                                                                                                                                                                      |                                                                                     |
| Flammability         | : 0 Minimal Hazard - Materials that will not burn                                                                                                                                                                                              |                                                                                     |
| Physical             | : 1 Slight Hazard - Materials that are normally stable but can become unstable (self-react) at high temperatures and pressures. Materials may react non-violently with water or undergo hazardous polymerization in the absence of inhibitors. |                                                                                     |
| Personal protection  | : B<br>B - Safety glasses, Gloves                                                                                                                                                                                                              |                                                                                     |

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