# SAFETY DATA SHEET SPECTRUM®



Revision date 16-April-2020 Revision Number 1

## 1. Identification

**Product identifier** 

Product Name HYDROGEN PEROXIDE, 3 PERCENT, TECHNICAL

Other means of identification

Product Code(s) H4052

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended use No information available

**Restrictions on use**No information available

Details of the supplier of the safety data sheet

**Supplier Address** 

Spectrum Chemical Mfg. Corp. 14422 South San Pedro St. Gardena, CA 90248 (310) 516-8000

Emergency telephone number

Emergency Telephone Chemtrec 1-800-424-9300

# 2. Hazard(s) identification

## Classification

| Skin corrosion/irritation         | Category 2  |
|-----------------------------------|-------------|
| Serious eye damage/eye irritation | Category 2A |

# Hazards not otherwise classified (HNOC)

Not applicable

## **Label elements**

Warning

## Hazard statements

Causes skin irritation

Causes serious eye irritation



Appearance No information available Physical state Liquid Odor Slight

## **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/eye protection/face protection

## **Precautionary Statements - Response**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention IF ON SKIN: Wash with plenty of water and soap If skin irritation occurs: Get medical advice/attention

## Other information

Harmful to aquatic life with long lasting effects. Harmful to aquatic life.

# 3. Composition/information on ingredients

Take off contaminated clothing and wash it before reuse

## Substance

Not applicable.

## <u>Mixture</u>

| Chemical name     | CAS No    | Weight-%    | Trade secret |
|-------------------|-----------|-------------|--------------|
| Water             | 7732-18-5 | 96.7 - 97.1 | *            |
| Hydrogen peroxide | 7722-84-1 | 2.9 - 3.3   | *            |

<sup>\*</sup>The exact percentage (concentration) of composition has been withheld as a trade secret.

# 4. First-aid measures

## **Description of first aid measures**

**General advice** Show this safety data sheet to the doctor in attendance.

**Inhalation** Remove to fresh air. Get medical attention immediately if symptoms occur.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep

eye wide open while rinsing. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists. Do not rub affected area.

Skin contact Wash off immediately with soap and plenty of water for at least 15 minutes. Get medical

attention if irritation develops and persists.

**Ingestion** Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth

to an unconscious person. Do NOT induce vomiting. Call a physician.

Self-protection of the first aider Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

Most important symptoms and effects, both acute and delayed

**Symptoms** May cause redness and tearing of the eyes. Burning sensation.

Indication of any immediate medical attention and special treatment needed

**Note to physicians**Treat symptomatically.

# 5. Fire-fighting measures

surrounding environment.

Large Fire CAUTION: Use of water spray when fighting fire may be inefficient.

**Unsuitable extinguishing media** Do not scatter spilled material with high pressure water streams.

Specific hazards arising from the

chemical

No information available.

**Explosion data** 

Sensitivity to mechanical impact none.

Sensitivity to static discharge none.

Special protective equipment for

fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout

gear. Use personal protection equipment.

# 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal

protective equipment as required.

**Other information** Refer to protective measures listed in Sections 7 and 8.

Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Pick up and transfer to properly labeled containers.

# 7. Handling and storage

Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with

skin, eyes or clothing. Do not eat, drink or smoke when using this product. Take off

contaminated clothing and wash before reuse.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place.

# 8. Exposure controls/personal protection

Control parameters

#### **Exposure Limits**

| Chemical name     | ACGIH TLV         | OSHA PEL  | NIOSH IDLH  |
|-------------------|-------------------|-----------|-------------|
| Hydrogen peroxide | No data available | 1 ppm TWA | 75 ppm IDLH |
| 7722-84-1         | 7722-84-1         |           |             |

## **Appropriate engineering controls**

**Engineering controls** Showers

> Eyewash stations Ventilation systems.

## Individual protection measures, such as personal protective equipment

If splashes are likely to occur, wear safety glasses with side-shields. Eye/face protection

Hand protection Wear suitable gloves. Impervious gloves.

Skin and body protection Wear suitable protective clothing. Long sleeved clothing.

No protective equipment is needed under normal use conditions. If exposure limits are Respiratory protection

exceeded or irritation is experienced, ventilation and evacuation may be required.

Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this General hygiene considerations

product. Avoid contact with skin, eyes or clothing.

# 9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state Liquid

**Appearance** No information available

Color clear Slight Odor

**Odor threshold** No information available

**Property** <u>Values</u> Remarks • Method

pН None known -0.4 °C / 31.3 °F Melting point / freezing point None known 101.6 °C / 214.9 °F **Boiling point / boiling range** None known Flash point no data available None known **Evaporation rate** no data available None known Flammability (solid, gas) no data available None known Flammability Limit in Air None known

No data available

Upper flammability or explosive

limits

Lower flammability or explosive No data available

limits

2.24 Vapor pressure None known Vapor density 0.64 None known 1.01 Relative density None known

No data available None known Water solubility Solubility(ies) Soluble in water None known

Soluble in diethyl ether

**Partition coefficient** No data available None known no data available **Autoignition temperature** None known

**Decomposition temperature** None known Kinematic viscosity no data available None known Dynamic viscosity No data available None known

Other information

**Explosive properties** No information available No information available **Oxidizing properties** 

Softening point
Molecular weight
VOC Content (%)
Liquid Density
No information available

# 10. Stability and reactivity

**Reactivity** No information available.

Chemical stability Stable under normal conditions.

Possibility of hazardous reactions None under normal processing.

**Conditions to avoid**None known based on information supplied.

**Incompatible materials** Strong acids. Strong bases. Strong oxidizing agents.

Hazardous decomposition products None known based on information supplied.

# 11. Toxicological information

## Information on likely routes of exposure

Product Information .

**Inhalation** Specific test data for the substance or mixture is not available. May cause irritation of

respiratory tract.

**Eye contact** Specific test data for the substance or mixture is not available. Irritating to eyes. (based on

components). Causes serious eye irritation.

**Skin contact** Specific test data for the substance or mixture is not available. Causes skin irritation. (based

on components).

**Ingestion** Specific test data for the substance or mixture is not available. Ingestion may cause

gastrointestinal irritation, nausea, vomiting and diarrhea.

Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** Redness. May cause redness and tearing of the eyes.

**Acute toxicity** 

**Numerical measures of toxicity** 

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral) 26,700.00 mg/kg
ATEmix (dermal) 66,666.70 mg/kg
ATEmix (inhalation-dust/mist) 66.70 mg/l
ATEmix (inhalation-vapor) 366.70 mg/l

**Component Information** 

| Chemical name                  | Oral LD50          | Dermal LD50           | Inhalation LC50          |  |
|--------------------------------|--------------------|-----------------------|--------------------------|--|
| Water<br>7732-18-5             | 90 mL/kg(Rat)      | -                     | -                        |  |
| Hydrogen peroxide<br>7722-84-1 | = 1518 mg/kg (Rat) | = 9200 mg/kg (Rabbit) | = 2000 mg/m³ ( Rat ) 4 h |  |

Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Skin corrosion/irritation**Classification based on data available for ingredients. Irritating to skin.

Serious eye damage/eye irritation Classification based on data available for ingredients. Causes serious eye irritation.

Respiratory or skin sensitization
Germ cell mutagenicity
Carcinogenicity

No information available.
No information available.
No information available.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

| Chemical name     | ACGIH               | IARC                  | NTP | OSHA |
|-------------------|---------------------|-----------------------|-----|------|
| Hydrogen peroxide | -                   | Group 3 -Monograph 71 | -   | -    |
| 7722-84-1         |                     | [1999]                |     |      |
|                   | Supplement 7 [1987] |                       |     |      |
|                   |                     | Monograph 36 [1985]   |     |      |

Legend

Reproductive toxicity No information available.

STOT - single exposure STOT - repeated exposure Target organ effects No information available. No information available. respiratory system, Eyes, Skin.

**Aspiration hazard** No information available.

Other adverse effects No information available.

Interactive effects No information available.

# 12. Ecological information

**Ecotoxicity** Harmful to aquatic life with long lasting effects.

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|-------------------|---|--------------------------------------|----------------|-------------------------|
| Chemical name     | Algae/aquatic plants                    | Fish                                 | Toxicity to    | Crustacea               |
|                   |   |                                      | microorganisms |                         |
| Hydrogen peroxide | EC50: =2.5mg/L (72h,                    | LC50: 10.0 - 32.0mg/L                | -              | EC50: 18 - 32mg/L (48h, |
| 7722-84-1         | Chlorella vulgaris)                     | (96h, Oncorhynchus                   |                | Daphnia magna) EC50:    |
|                   |   | mykiss) LC50: 18 -                   |                | =7.7mg/L (24h, Daphnia  |
|                   |   | 56mg/L (96h, Lepomis                 |                | magna)                  |
|                   |   | macrochirus) LC50:                   |                |                         |
|                   |   | =16.4mg/L (96h,                      |                |                         |
|                   |   | Pimenhales promelas)                 |                |                         |

Persistence and degradability

**Bioaccumulation** 

products

No information available. Inherently biodegradable.

Other adverse effects No information available.

# 13. Disposal considerations

Waste treatment methods

Waste from residues/unused

Dispose of in accordance with local regulations. Dispose of waste in accordance with

environmental legislation.

**Contaminated packaging** Do not reuse empty containers.

# 14. Transport information

**DOT** not regulated

TDG not regulated

MEX not regulated

ICAO (air) not regulated

**IATA** not regulated

**IMDG** not regulated

RID not regulated

ADR not regulated

ADN not regulated

# 15. Regulatory information

## **International Inventories**

**TSCA** Complies

DSL/NDSL Complies EINECS/ELINCS Complies

**ENCS** This product complies with ENCS: **IECSC** This product complies with China:

**KECL** Complies **PICCS** Complies

AICS All the constituents of this material are listed on the Australian Inventory of Chemical

Substances (AICS).

#### Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances **IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

## **US Federal Regulations**

## **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

## SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

## **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

## **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

# US State Regulations

## **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

## **U.S. State Right-to-Know Regulations**

This product does not contain any substances regulated under applicable state right-to-know regulations

#### U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

# 16. Other information

**NFPA** 

Health hazards 3 Flammability 0 Instability 0

Physical and chemical properties -

HMIS

Health hazards 3 Flammability 0 Physical hazards 0 Personal protection X

# Key or legend to abbreviations and acronyms used in the safety data sheet

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value

## Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)
U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA) EPA (Environmental Protection Agency) Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

Japan GHS Classification

Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organization for Economic Co-operation and Development Environment, Health, and Safety Publications

Organization for Economic Co-operation and Development High Production Volume Chemicals Program

Organization for Economic Co-operation and Development Screening Information Data Set

World Health Organization

Revision date 16-April-2020

Revision Note No information available.

Disclaimer

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**End of Safety Data Sheet**