



SILVER FERN CHEMICAL, INC.

Safety Data Sheet

Hydrogen Peroxide 35%

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifier

Product name: Hydrogen Peroxide 35%

Synonym(s): Dihydrogen dioxide; Hydrogen peroxide, solution; Hydroperoxide

REACH Registration Number: No data available at this time.

1.2 Relevant identified uses of the substance or mixture and uses advised against

General use: Industrial and laboratory applications

Uses advised against: None known

1.3 Details of the supplier and of the safety data sheet

Manufacturer/Distributor

Silver Fern Chemical, Inc.

2226 Queen Anne Avenue North

Suite C

Seattle, WA 98109 USA

1-866-282-3384

Website - www.silverfernchemical.com; email address - info@silverfernchemical.com

1.4 Emergency telephone number: INFO-TRAC +1-800-535-5053; Outside USA & Canada +1-352-323-3500

SECTION 2 - HAZARDS IDENTIFICATION

2.1 Classification of substance or mixture

Product definition: Substance

Classification in accordance with 29 CFR 1910 (OSHA HCS) and Regulation EC No. 1272/2008

Oxidizing liquid - Category 2 [H272]

Acute toxicity, oral - Category 4 [H302]

Skin irritation - Category 2 [H315]

Eye damage - Category 1 [H318]

Specific target organ toxicity, single exposure - Category 3 (STOR SE3) [H335]

2.2 Label elements

Hazard symbol(s):



GHS03

GHS05

GHS07

Signal word:

Danger

Hazard statement(s):

H272 - May intensify fire; oxidizer

H302 - Harmful if swallowed

H315 - Causes skin irritation

H318 - Causes serious eye damage

H335 - May cause respiratory irritation

Precautionary statements:

[Prevention]

P210 - Keep away from heat and hot surfaces.

P220 - Keep away from combustible and incompatible materials.

P221 - Take any precaution to avoid mixing with reducing agents, combustible materials and organic materials.

P261 - Avoid breathing mist and vapors.

P264 - Wash hands and other skin areas exposed to material thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product.

P271 - Use only outdoors or in a well-ventilated area.

P280 - Wear protective gloves, protective clothing and eye protection.

[Response]

P301 + P330 + P312 - IF SWALLOWED: Rinse mouth. Call a POISON CENTER or doctor if you feel unwell.

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.

P304 + P340 + P312 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell.

P305 + P351 + P338 + P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately contact a POISON CENTER or doctor.

P332 + P313 - If skin irritation occurs: Get medical attention.

[Storage]
[Disposal]

P362 - Take off contaminated clothing and wash before reuse.
P370 + P378 - In case of fire: Use water only to extinguish the fire.
P321 - Specific treatment: Immediately call a POISON CENTER or doctor. Refer to Section 4 of this SDS.
P405 + P403 + P233 - Store locked up in a well-ventilated place. Keep container tightly closed.
P501 - Dispose of contents and containers in accordance with national and local regulations.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

None known

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

% by Weight	Ingredient	CAS Number	EC Number	Annex Number	GHS Classification
34 - 36	Hydrogen Peroxide	7722-84-1	231-765-0	607-428-00-2	H372, H302, H315, H318, H335

There are no ingredients present in this product which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

3.2 Mixtures

Not applicable

SECTION 4 - FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation: If product mist or vapor causes respiratory irritation or distress, move the exposed person to fresh air immediately. If breathing is difficult or irregular, administer oxygen; if respiratory arrest occurs, start artificial respiration by trained personnel. Do not use mouth-to-mouth method if the victim inhaled this substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If unconscious, maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. If symptoms persist, seek medical attention.

Eyes: Do not rub eyes or keep eyes closed. Immediately flush eyes with large amounts of water or saline solution for at least 30 minutes, occasionally lifting the upper and lower lids. Remove contact lenses, if present and easy to do, after first 2 minutes and continue rinsing. Seek immediate medical attention, preferably from an ophthalmologist.

Skin: Flush skin with large amounts of water while removing contaminated clothing. Wash affected areas with soap and water followed by thorough rinsing. Wash contaminated clothing and shoes thoroughly before reuse. If irritation persists, seek medical attention.

Ingestion: Rinse mouth with water if the victim is conscious. Remove dentures, if present. DO NOT induce vomiting. Give 1 - 2 cupfuls of water to drink if the victim is conscious, alert, able to swallow and is not experiencing respiratory distress. Never give anything by mouth to a convulsing or unconscious person. Do not leave the victim unattended. Seek immediate medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Potential health symptoms and effects

Eyes: Causes severe eye irritation and serious eye damage. Symptoms may include redness, swelling, pain, tearing, blurred vision and burns. May cause chemical conjunctivitis and corneal damage.

Skin: Causes skin irritation and possible burns. Symptoms may include redness, discomfort, swelling, blisters and burns. May cause discoloration of the skin. Prolonged and repeated contact with unprotected skin may cause dermatitis.

Inhalation: Causes irritation of the respiratory tract with headache, sore throat, cough and shortness of breath. May cause chemical burns to the respiratory tract. At high concentrations, respiratory effects may include acute lung damage and delayed pulmonary edema.

Ingestion: Harmful if swallowed. Causes irritation of the digestive tract with bloating, nausea, vomiting, abdominal pain and diarrhea. Causes burns to the gastrointestinal tract. May cause damage to the vascular system and damage to the red blood cells. May cause difficulty in swallowing, stomach distension, possible cerebral swelling and death. May cause bleeding of the stomach and ulcer formation.

Chronic: Prolonged and repeated skin contact may cause dermatitis. Laboratory experiments have resulted in mutagenic effects. Hydrogen Peroxide is a confirmed animal carcinogen with unknown relevance to humans. Refer to Section 11.

4.3 Indication of any immediate medical attention and special treatment needed

Advice to doctor and hospital personnel

Exposure to material may cause delayed lung injury resulting in pulmonary edema and pneumonitis. Exposed individuals should be monitored for 72 hours after exposure for the onset of delayed respiratory symptoms.

SECTION 5 - FIRE FIGHTING MEASURES

5.1 Extinguishable media

Suitable methods of extinction: Use extinguishing media such as water fog or water spray.

Unsuitable methods of extinction: None known

5.2 Special hazards arising from the substance or mixture

Oxidizer! Approach fire from upwind to avoid hazardous vapors and toxic decomposition products. Product is not combustible; however, it is an oxidizer and its heat of reaction with reducing agents or combustible materials may cause ignition. Releases oxygen upon decomposition which enhances combustion.

Closed containers may rupture due to the buildup of pressure when exposed to extreme heat. During emergency conditions overexposure to

decomposition products may cause a health hazard. Symptoms may not be immediately apparent or may be delayed. Obtain medical attention.

Explosion hazards: Contact with combustible, organic or oxidizable materials may cause combustion or explosion.

5.3 Advice for firefighters

Full protective equipment including self-contained breathing apparatus should be used. Water may be used to cool closed containers to prevent pressure buildup and possible autoignition or explosion when exposed to extreme heat. If possible, firefighters should control runoff water to prevent environmental contamination.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Evacuate non-essential personnel. Wear appropriate protective clothing and equipment designated in Section 8.2. Do not inhale mist or vapor. Ventilate the area. Remove all sources of ignition. No smoking. Clean up spills immediately. Spills create a slip hazard.

6.2 Environmental precautions

Avoid dispersal of spilled material or runoff and prevent contact with soil and entry into drains, sewers or waterways.

6.3 Methods and materials for containment and cleaning up

Approach spill from upwind direction. Cover drains and contain spill. Cover spill with a large quantity of inert absorbent. Do not use combustible material such as sawdust. DO NOT use combustible materials such as paper towels or straw brooms to clean up spills. Collect material using non-sparking tools and place into an approved container for proper disposal. Observe possible material restrictions (Sections 7.2 and 10.5). Do not allow material or runoff from rinsing contaminated areas to enter floor drains or storm drains and ditches which lead to waterways. Dispose of via a licensed waste disposal contractor.

6.4 Reference to other sections

For indications about waste treatment, see Section 13.

SECTION 7 - HANDLING AND STORAGE

7.1 Precautions for safe handling

Wear all appropriate personal protective equipment specified in Section 8.2. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. No smoking. If normal use of material presents a respiratory hazard, use only adequate ventilation or wear an appropriate respirator. Wash contaminated clothing and shoes thoroughly before reuse.

Advice on protection against fire and explosion

Keep away from combustible, organic and incompatible materials. This substance releases oxygen upon decomposition, which intensifies fire.

7.2 Conditions for safe storage, including any incompatibilities

Store in dry, cool, well-ventilated areas away from combustible and incompatible materials (see Section 10.5), food and drink. Do not store on wood floors. Keep away from heat and ignition sources. Store separate from acids, alkalis, reducing agents, organic materials and metal oxides. Do not store in of direct sunlight. Contents may develop pressure in unvented containers upon prolonged storage. Transfer only to approved containers having correct labeling. Keep containers tightly closed when not in use. Protect containers against physical damage. Containers that have been opened must be carefully resealed and kept upright to prevent spillage. Containers are hazardous when empty as they contain product residues. Use appropriate containment to environmental contamination. Ventilate closed areas. Do not take internally. Keep out of reach of children.

7.3 Specific end uses

Apart from the uses mentioned in Section 1.2, no other specific uses are stipulated.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Occupational exposure limits

CAS Number	Ingredient	OSHA - PEL	ACGIH	NIOSH
7722-84-1	Hydrogen Peroxide	1 ppm TWA; 1.4 mg/m ³ TWA	1 ppm; 1.4 mg/m ³ TWA	1 ppm TWA; 1.4 mg/m ³ TWA 75 ppm IDLH

8.2 Exposure controls

Engineering measures: Technical measures and appropriate working operations should be given priority over the use of personal protective equipment. Use adequate ventilation. Local exhaust is preferable.

Individual protection measures: Wear protective clothing to prevent repeated or prolonged contact with product. Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the representative supplier.

Hygiene measures: Facilities storing or using this material should be equipped with an eyewash station and safety shower. Change contaminated clothing. Preventive skin protection is recommended. Wash hands thoroughly after use, before eating, drinking, smoking or using the lavatory.

Eye/face protection: Wear safety glasses with unperforated side shields or protective splash goggles during use.

Hand protection: Wear Neoprene, PVC or butyl rubber gloves or gloves recommended by glove supplier for protection against materials in Section 3. Gloves should be impermeable to chemicals and oil. Breakthrough time of selected gloves must be greater than the intended use period.

Skin protection: Wear protective clothing. Wear protective boots if the situation requires.

Respiratory protection: None required with normal use. Where risk assessment shows air-purifying respirators are appropriate use a half-mask respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator

is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Follow OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149.

Environmental exposure controls: Do not empty into drains.

PPE must not be considered a long-term solution to exposure control. PPE usage must be accompanied by employer programs to properly select, maintain, clean fit and use. Consult a competent industrial hygiene resource to determine hazard potential and/or the PPE manufacturers to ensure adequate protection.



*It is recommended that a full face shield be worn in addition to splash goggles when using this product.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Clear, colorless liquid
Odor	Pungent
Odor Threshold	No data available
Molecular Weight	34.01 g/mol
Chemical Formula	H ₂ O ₂
pH	No data available
Freezing/Melting Point Range	-33 °C (-27 °F)
Boiling Point	108 °C (226 °F)
Evaporation Rate	No data available
Flammability (solid, gas)	Not applicable
Flash Point	Not applicable
Autoignition Temperature	No data available
Decomposition Temperature	No data available
Lower Explosive Limit (LEL)	Not applicable
Upper Explosive Limit (UEL)	Not applicable
Vapor Pressure	24 mm Hg @ 20 °C
Vapor Density Range	No data available
Density	1.13 g/cm ³ @ 20 °C
Viscosity	No data available
Solubility in Water	Complete
Partition Coefficient: n-octanol/water	log Pow = -1.36
Oxidizing Properties	This substance is classified as oxidizing with the Category of 2.
Explosive Properties	No data available
Volatiles by Weight @ 21 °C	100%

9.2 Other data

No data available

SECTION 10 - STABILITY AND REACTIVITY

10.1 Reactivity

This material is stable under normal use and handling.

10.2 Chemical stability

This material is chemically stable under normal and anticipated storage, handling and processing conditions. Decomposes slowly to release oxygen. Unstable when heated or contaminated with heavy metals, reducing agents, rust, dirt or organic materials. Stability is reduced when pH is above 4.0.

10.3 Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4 Conditions to avoid

High temperatures, contact with incompatible materials

10.5 Incompatible materials

Strong reducing agents, alkaline materials, metals, metallic oxides, organic materials, flammable and combustible materials, dusts

10.6 Hazardous decomposition products

Thermal decomposition products include oxygen and hydrogen gas.

SECTION 11 - TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute oral toxicity

LD₅₀, rat - 1,200 mg/kg (35 % aqueous solution)

Acute inhalation toxicity

LC₀, rat - 0.17 mg/l, 4 h (50 % saturated vapor); No deaths occurred.



Acute dermal toxicity

LD₅₀, rabbit - >2,000 mg/kg (35 % aqueous solution)

Skin irritation

Causes skin irritation and possible burns.

Eye irritation

Causes severe eye irritation and serious eye damage.

Sensitization

No data available

Genotoxicity in vitro

Genetic changes were observed in laboratory tests using: bacteria, animal cells.

Genotoxicity in vivo

Genetic changes were observed in a laboratory test using: mice, rats.

Mutagenicity

No data available

Specific organ toxicity - single exposure

May cause respiratory irritation

Specific organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

11.2 Further information

Hydrogen Peroxide (CAS #7722-84-1): IARC Group 3 carcinogen - *Not classifiable as to its carcinogenicity to humans*; ACGIH A3 carcinogen - *Confirmed animal carcinogen with unknown relevance to humans*. Not listed as a carcinogen by NTP or OSHA.

Laboratory experiments with animal test subjects have resulted in mutagenic effects.

Handle in accordance with good industrial hygiene and safety practice.

SECTION 12 - ECOLOGICAL INFORMATION

12.1 Toxicity

This substance is harmful to aquatic life with long lasting effects.

Acute and prolonged toxicity to fish:	LC ₅₀ - Cyprinus carpio (Carp), 48 h: 42 mg/l LC ₅₀ - Pimephales promelas (Fathead minnow), 96 h: 16.4 mg/l
Acute toxicity to aquatic invertebrates:	EC ₅₀ - Daphnia pulex (Water flea), 48 h: 2.4 mg/l
Acute toxicity to aquatic plants:	ErC ₅₀ - Skeletonema costatum (marine diatom), 72 h: 1.38 mg/l
Acute toxicity to microorganisms:	EC ₅₀ - Activated sludge, 0.5 h: 466 mg/l

12.2 Persistence and degradability

Inorganic substances are not biodegradable. Methods for the determination of biodegradability are not applicable to inorganic substances.

12.3 Bioaccumulation potential

This substance will not bioaccumulate.

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

This substance is not considered to be persistent, bioaccumulating and toxic or very persistent or very bioaccumulating.

12.6 Other adverse effects**Additional ecological information**

Do not allow material to run into surface waters, wastewater or soil.

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

SECTION 13 - DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Methods of disposal: The generation of waste should be avoided or minimized whenever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

RCRA P-Series: No listing

RCRA U-Series: No listing

SECTION 14 - TRANSPORT INFORMATION

Note: Transportation information provided is for reference only. Customer is urged to consult 49 CFR 100 - 177, IMDG, IATA, EC, United Nations TDG and WHMIS (Canada) TDG information manuals for detailed regulations and exceptions covering specific container sizes, packaging materials and methods of shipping.

US DOT (Domestic Ground Transportation)

Proper Shipping Name: Hydrogen peroxide, aqueous solutions with not less than 20 % but not more than 40% hydrogen peroxide
Hazard Class: 5.1, 8
UN/NA: UN2014
Packing Group: II
NAERG: Guide #140
Packaging Authorization: Non-Bulk: 49 CFR 173.202; Bulk: 173.243
Packaging Exceptions: NONE

**IMO/IMDG (Water Transportation)**

Proper Shipping Name: Hydrogen peroxide, aqueous solutions with not less than 20 % but not more than 40% hydrogen peroxide
Hazard Class: 5.1, 8
UN/NA: UN2014
Packing Group: II
Marine Pollutant: No
EMS Number: F-H, S-Q

**ICAO/IATA (Air Transportation)**

Proper Shipping Name: Hydrogen peroxide, aqueous solutions with not less than 20 % but not more than 40% hydrogen peroxide
Hazard Class: 5.1, 8
UN/NA: UN2014
Packing Group: II
Quantity Limitations: 49 CFR 175.27 and 175.75 - Cargo Aircraft Only: 5 l; Passenger Aircraft: 1 l

RID/ADR (Rail Transportation)

Proper Shipping Name: Hydrogen peroxide, aqueous solutions with not less than 20 % but not more than 40% hydrogen
Hazard Class: 5.1, 8
UN/NA: UN2014
Packing Group: II

SECTION 15 - REGULATORY INFORMATION**15.1 Safety, health and environmental regulations/legislation specific for substance or mixture****U. S. Federal Regulations**

OSHA Hazard Communication Standard: This material is classified as hazardous in accordance with OSHA 29 CFR 1910-1200.

OSHA Process Safety Management Standard: This substance is not regulated under OSHA PSM Standard 29 CFR 1910.119.

EPA Risk Management Planning Standard: This substance is not regulated under EPA RMP Standard (RMP) 40 CFR Part 68.

EPA Federal Insecticide, Fungicide and Rodenticide Act: This product is not a registered Pesticide under the FIFRA, 40 CFR Part 150.

Toxic Substance Control Act (TSCA) Inventory: Hydrogen Peroxide (CAS #7722-84-1) is listed on the TSCA Inventory. It is not subject to TSCA 12(b) Export Notification.

Drug Enforcement Administration (DEA) List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.4(f)(2)) and Chemical Code Number
Not listed

Drug Enforcement Administration (DEA) Lists 1 & 2, Exempt Chemical Mixtures (21 CFR 1310.12(c)) and Code Number
Not listed

Department of Homeland Security (DHS) Chemical Facility Anti-Terrorism Standards (CFATS) Chemicals

Hydrogen Peroxide (7722-84-1) - concentrations of 35% or greater

Superfund Amendments and Reauthorization Act (SARA)

SARA Section 311/312 Hazard Categories: Acute Health Hazard, Chronic Health Hazard, Reactivity Hazard

SARA 313 Information: Hydrogen Peroxide 35% is not subject to reporting requirements of Section 313 of the Emergency Planning and Community Right-to Know Act of 1986.

SARA 302/304 Extremely Hazardous Substance: No components of the product exceed the threshold (de minimis) reporting levels established by of these sections of Title III of SARA.

SARA 302/304 Emergency Planning & Notification: No components of the product exceed the threshold (de minimis) reporting levels established by of these sections of Title III of SARA.

Comprehensive Response Compensation and Liability Act (CERCLA): This product contains the following CERCLA reportable substance: Hydrogen Peroxide (CAS #7722-84-1): RQ = 45.36 kg (100 lb)

Clean Air Act (CAA)

This product does not contain any substances listed as a Hazardous Air Pollutant (HAP) designated in CAA Section 112 (b).

This product does not contain any Class 1 Ozone depletors.

This product does not contain any Class 2 Ozone depletors.

Clean Water Act (CWA)

None of the chemicals in this product are listed as Hazardous Substances under the CWA.

None of the chemicals in this product are listed as Priority Pollutants under the CWA.

None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

U.S. State Regulations**California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986**

None of the chemicals in this product are known to the State of California to cause cancer, birth defects or reproductive harm.



Other U.S. State Inventories

Hydrogen Peroxide (CAS #7722-84-1) is listed on the following State Hazardous Substance Inventories, Right-to-Know lists and/or Air Quality/Air Pollutants lists: CA, DE, ID, MA, MN, NJ, NY, PA, RI, WA, WI.

Canada

WHMIS Hazard Symbol and Classification

May intensify fire, oxidizer Causes skin irritation and serious eye damage
Harmful if swallowed May cause respiratory irritation

Canadian National Pollutant Release Inventory (NPRI): This substance is not listed on the NPRI.

European Economic Community

WGK, Germany (Water danger/protection): 1 (low hazard to waters)

Global Chemical Inventory Lists

Country	Inventory Name	Inventory Listing*
Canada	Domestic Substance List (DSL)	Yes
Canada	Non-Domestic Substance List (NDSL)	No
Europe	Inventory of New and Existing Chemicals (EINECS)	Yes
United States	Toxic Substance Control Act (TSCA)	Yes
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
New Zealand	New Zealand Inventory of Chemicals (NZIoC)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
Philippines	Philippines Inventory of Chemicals and Chemical Substances (PICCS)	Yes

*Yes - All components of this product are in compliance with the inventory requirements administered by the governing country.

No - One or more components of this product are not on the inventory or are exempt from listing.

15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out.

SECTION 16 - OTHER INFORMATION

Hazardous Material Information System (HMIS)

Health	3
Flammability	0
Physical Hazard	1
Personal Protection	C

HMIS Hazard Rating Legend

0 = Minimal 1 = Slight 2 = Moderate 3 = Serious
4 = Severe * = Chronic Health Hazard

NFPA Hazard Rating Legend

0 = Insignificant 1 = Slight 2 = Moderate
3 = High 4 = Extreme

National Fire Protection Association (NFPA)

Flammability



Abbreviation Key

ACGIH	American Conference of Governmental Industrial Hygienists
ADR	Accord Dangereux Routier (European regulations concerning the international transport of dangerous goods by road)
CAS	Chemical Abstract Services
CFR	Code of Federal Regulations
DOT	Department of Transportation
EMS Guide	Emergency Response Procedures for Ships Carrying Dangerous Goods
EPA	Environmental Protection Agency
ERG	Emergency Response Guide Book
FDA	Food and Drug Administration
GHS	Globally Harmonized System of Classification and Labelling of Chemicals (GHS)
HCS	Hazard Communication Standard
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
ICAO	International Civil Aviation Organization
IDLH	Immediately Dangerous to Life and Health
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
mppcf	Millions of Particles Per Cubic Foot
NA	North America
NAERG	North American Emergency Response Guide Book
NIOSH	National Institute for Occupational Safety
NTP	National Toxicology Program
NOEC	No Observable Effect Concentration
OSHA	Occupational Safety and Health Administration

Effective Date: 11 September 2017

Supercedes:

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Safety Data Sheet
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PBT	Persistent, Bioaccumulating and Toxic
PEL	Permissible Exposure Limit
PMCC	Pensky-Martens Closed Cup
ppm	Parts Per Million
RCRA	Resource Conservation and Recovery Act
RID	Dangerous Goods by Rail
RQ	Reportable Quantity
TCC/Tag	Tagliabue Closed Cup
TLV	Threshold Limit Value
TSCA	Toxic Substance Control Act
TWA	Time-Weighted Average
UN	United Nations
VOC	Volatile Organic Compounds
vPvB	Very Persistent and Very Bioaccumulating
WHMIS	Workplace Hazardous Materials Information System

DISCLAIMER OF RESPONSIBILITY

The information on this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, expressed or implied, regarding its correctness. Some information presented and conclusions drawn herein are from sources other than direct test data on the substance itself. The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume damage or expense arising out of or in any way responsibility and expressly disclaim liability for loss, connected with handling, storage, use, or disposal of this product. If the product is used as a component in another product, this SDS information may not be applicable.

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