SILVER FERN CHEMICAL, INC.

Safety Data Sheet

Bisphenol A

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifier

Product name: Bisphenol A

Synonym(s): BPA; 4,4'-Isopropylidenediphenol; 4,4'-(1-Methylethylidene)bisphenol; 4,4'-Bisphenol A

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

Silver Fern Chemical, Inc.
121 W. De La Guerra Street, Suite B
Santa Barbara, CA 93101 USA

Customer Service:
Phone: +1-866-282-3384
Email Address - info@silverfernchemical.com
Website - www.silverfernchemical.com

1.4 Emergency Telephone Number

+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

Skin Sensitization - Category 1 [H317]
Eye Damage - Category 1 [H318]
Specific Target Organ Toxicity, Single Exposure - Category 3 (STOT SE 3) [H335]
Reproductive Toxicity - Category 1B [H360F]
Aquatic Toxicity, Chronic - Category 2 [H411]

2.2 Label elements

Hazard symbol(s):

GHS05 GHS07 GHS08 GHS09

Signal word: Danger

Hazard statement(s):
H317 - May cause an allergic skin reaction
H318 - Causes serious eye damage
H335 - May cause respiratory irritation
H360f - May damage fertility
H411 - Toxic to aquatic life with long lasting effects

Precautionary statements:

[Prevention]
P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P261 - Avoid breathing dust or vapor.
P271 - Use only outdoors or in a well-ventilated area.
P272 - Contaminated work clothing should not be allowed out of the workplace.
P273 - Avoid release to the environment
P280 - Wear protective gloves, protective clothing and eye protection.

[Response]
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.
P304 + P340 + H312 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention.
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 call a POISON CENTER or doctor.
P308 + P313 - IF exposed or concerned: Get medical attention.
P321 + P312 - Specific treatment: Seek medical attention if you feel unwell. Refer to Section 4 of this SDS.
P333 + P313 - If skin irritation or rash occurs: Get medical attention.
P363 - Wash contaminated clothing before reuse.
H391 - Collect spillage.

[Storage] P405 + P403 + P233 - Store locked up in a well-ventilated place. Keep container tightly closed.
[Disposal] 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

No data available

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

% by Weight	Ingredient	CAS Number	EC Number	Index Number	GHS Classification
> 99	Bisphenol A	80-05-7	201-245-7	604-030-00-0	H317, H318, H335, H360F, H411

There are no additional 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 dust 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. If unconscious, maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. If irritation persists or if the victim feels unwell, seek medical attention.

Eyes: Immediately flush eyes with large amounts of water or saline solution for at least 15 minutes, occasionally lifting the upper and lower lids. Remove contact lenses if present and easy to do after first 2 minutes and continue rinsing. If irritation persists seek medical attention, preferably from an ophthalmologist.

Skin: Rinse skin with water while removing contaminated clothing. Wash the affected area with soap and water followed by thorough rinsing. Wash contaminated clothing and shoes before reuse. If irritation persists or if rash occurs, seek medical attention.

Ingestion: Rinse mouth with water if the victim is conscious. Remove dentures, if any. Give 1 - 2 cupfuls of water or milk to drink if the victim is conscious, alert, able to swallow and not experiencing respiratory distress. DO NOT induce vomiting unless directed to do so by medical personnel. Vomiting may occur spontaneously. To prevent aspiration of vomitous into the lungs, lay the victim on one side with the head lower than the waist. Never give anything by mouth to an unconscious or convulsing person. Do not leave the victim unattended. Obtain 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 and blurred vision. May cause permanent eye damage. Risk of blindness! Particulates can cause mechanical irritation of the eye and surrounding tissues.

Skin: Causes skin irritation with localized redness and discomfort. May cause sensitization. May cause tingling of the hands and feet, dermatitis and hives. May be harmful if absorbed through the skin.

Inhalation: Inhalation of dust or vapor causes irritation of the respiratory tract with headache, sore throat, cough and shortness of breath. May be harmful if inhaled.

Ingestion: Causes irritation of the digestive tract with nausea, vomiting, abdominal pain and diarrhea. May cause burns to the mouth, lips, throat and digestive tract. May cause systemic effects. Harmful if swallowed.

Chronic: Persons with pre-existing skin disorders may be more susceptible to the effects of this substance. Repeated or prolonged contact may cause skin sensitization and photosensitization. May cause impairment of the upper respiratory tract. Ingestion may cause effects on the liver and kidneys. Bisphenol A is an endocrine disrupter. Animal tests show that this substance may cause toxic effects upon human reproduction and fertility. Refer to Section 11.2.

4.3 Indication of any immediate medical attention and special treatment needed

Advice to doctor and hospital personnel

Treat symptomatically and supportively.

SECTION 5 – FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable methods of extinction: Use extinguishing media suitable for the surrounding fire.
Unsuitable methods of extinction: Water jets or streams may spread the fire.

5.2 Special hazards arising from the substance or mixture

Combustible dust. Closed containers may bust 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: Avoid high temperatures, sources of ignition and hot surfaces. This material forms explosive mixtures with air on intense

heating. Avoid dust generation and accumulation. When suspended in air dust can pose an explosion hazard.

5.3 Advice to 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. Water contaminated by this material must be contained from being discharged to any waterway, sewer or drain to prevent environmental contamination.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Evacuate non-essential personnel. Avoid dust generation and accumulation. DO NOT inhale dust. Wear appropriate protective clothing and equipment designated in Section 8.2. Ventilate the area. Remove all sources of ignition. NO SMOKING. Clean up spills immediately.

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. DO NOT flush spill down the drain. Cover drains and contain spill. Carefully 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 that 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 – STORAGE AND HANDLING

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 inhale dust. 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 before reuse. Contaminated work clothing should not be allowed out of the workplace.

Advice on protection against fire and explosion

Keep away from heat and sources of ignition. Forms explosive mixtures with air on intense heating. Avoid dust generation and accumulation. Forms combustible dust clouds in air.

7.2 Conditions for safe storage, including any incompatibilities

Store in dry, cool, well-ventilated areas away from incompatible materials (see Section 10.5), food and drink. Keep away from heat and ignition sources. Transfer only to approved containers having correct labeling. Keep containers tightly closed when not in use to prevent moisture absorption. 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 avoid environmental contamination. Ventilate closed areas. Keep locked up and 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

Contains no substances with occupational exposure limit values.

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. Refer to Section 7.1.

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 protective splash goggles or safety glasses with unperforated side shields during use. A face shield is recommended if splashing is anticipated during use.

Hand protection: Wear Nitrile rubber gloves or those 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, if needed. Wear protective boots if the situation requires.

Respiratory protection: Wear a dust mask when handling this product if dust generation is problematic. Always use an approved respirator when vapor/aerosols exceed permissible exposure limits. 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

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	White, beige or tan colored solid
Odor	Characteristic, aromatic
Odor Threshold	No data available
Molecular Weight	228.28 g/mol
Chemical Formula	$C_{15}H_{16}O_2$
pH	No data available
Freezing/Melting Point	150 - 155 °C (302 - 311 °F)
Initial Boiling Point	220 °C (428 °F) @ 4 mm Hg
Evaporation Rate	Not applicable
Flammability (solid, gas)	Non-flammable; combustible dust
Flash Point	227 °C (441.8 °F) @ 760 mm Hg, closed cup
Autoignition Temperature	510 °C (950 °F) @ 760 mm Hg
Decomposition Temperature	No data available
Lower Explosive Limit (LEL)	1.7% (v)
Upper Explosive Limit (UEL)	10.5% (v)
Vapor Pressure	$<1 \times 10^{-7}$ kPa @ 25 °C
Vapor Density	No data available
Specific Gravity	1.2 @ 25 °C
Viscosity	No data available
Solubility in Water	0.298 g/l @ 25 °C - OECD Test Guideline 105
Partition Coefficient (n-octanol/water)	log P_{ow} = 3.1
Oxidizing Properties	Not applicable
Explosive Properties	Not applicable
Volatiles by Weight @ 21 °C	0%

9.2 Other Data

No data available

SECTION 10 – STABILITY AND REACTIVITY

10.1 Reactivity

This material is stable under normal handling conditions and use.

10.2 Chemical Stability

This material is stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4 Conditions to avoid

Strong heating, contact with incompatible materials, dust generation and accumulation

10.5 Incompatible materials

Strong bases, strong oxidizing agents, alkaline metals

10.6 Hazardous decomposition products

Thermal decomposition products include oxides of carbon and irritating and toxic fumes and gases.

SECTION 11 – TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute oral toxicity

LD_{50}, rat: > 2,000 - 5,000 mg/kg (male and female)

Acute inhalation toxicity
LC_{50}, rat: 17 mg/l - 4 h (male and female)

Acute dermal toxicity
LD_{50}, rabbit: 6,400 mg/kg

Skin irritation
Causes skin irritation.

Eye irritation
Causes serious eye damage.

Sensitization
May cause an allergic skin reaction.

Carcinogenicity
No data available

Reproductive toxicity
May damage fertility.

Genotoxicity
No data available

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

Bisphenol A is a known endocrine disrupter, and numerous studies have found that laboratory animals exposed to low levels of this substance have elevated rates of diabetes, mammary and prostate cancers, decreased sperm count, reproductive problems, early puberty, obesity and neurological problems.

There is long list of adverse effects thought to be caused by Bisphenol A, mainly linked with hormonal, fertility and developmental disorders. These include potential effects on the brain, mammary glands, kidneys, liver functioning and prostate glands. These effects may occur as a result of exposures that happen during biologically vulnerable phases of life. This is particularly relevant for people such as pregnant women, fetuses, infants and young children.

This product contains no substances present at levels greater than or equal to the 0.1% threshold (de minimis) that are identified as a probable, possible, potential or confirmed carcinogens by ACGIH, IARC, NTP or OSHA.

Handle in accordance with good industrial hygiene and safety practice.

SECTION 12 - ECOLOGICAL INFORMATION

12.1 Toxicity

Large spills or discharges of this material may be harmful to aquatic life and the environment.

Toxicity to fish:	LC_{50} - Pimephales promelas (Fathead minnow), 96 h: 3.6 - 5.4 mg/l
	LC_{50} - Menidia menidia (Atlantic silverside), 96 h: 8.3 - 11 mg/l
Toxicity to aquatic invertebrates:	EC_{50} - Daphnia magna (Water flea), 48 h: 9.2 - 11.4 mg/l
Toxicity to aquatic plants:	EC_{50} - Pseudokirchneriella subcapitata (Freshwater algae), 96 h: 2.5 mg/l

12.2 Persistence and degradability

This product is readily biodegradable.

12.3 Bioaccumulation potential

This substance has the potential to bioaccumulate.

12.4 Mobility in soil

Potential for mobility in soil is low.

12.5 Results of PBT and vPvB assessment

Substance does not meet the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006, Annex XIII.

12.6 Other 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 F-Series: No listings above the reportable threshold (de minimis)
RCRA U-Series: No listings above the reportable threshold (de minimis)

SECTION 14 – TRANSPORTATION 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.

Limited quantity for miscellaneous materials in Packing Group III when inner packagings are not over 5.0 kg (11 lb.) net capacity each, packed in a strong outer packaging.

USA DOT (Ground Transportation)	NOT REGULATED FOR TRANSPORT - Not dangerous goods
IMO/IMDG (Water Transportation)	
Proper Shipping Name	Environmentally hazardous substance, solid, n.o.s. (4,4'- isopropylidenediphenol)
Hazard Class	9
UN/NA	UN3077
Packing Group	III
Marine Pollutant	YES
EMS Number	F-A, S-F
ICAO/IATA (Air Transportation)	
Proper Shipping Name	Environmentally hazardous substance, solid, n.o.s. (4,4'- isopropylidenediphenol)
Hazard Class	9
UN/NA	UN3077
Packing Group	III
Quantity Limitations	49 CFR 175.27 and 175.75 - Cargo Aircraft Only: no limit; Passenger Aircraft: no limit
RID/ADR (Rail Transportation)	
Proper Shipping Name	Environmentally hazardous substance, solid, n.o.s. (4,4'- isopropylidenediphenol)
Hazard Class	9
UN/NA	UN3077
Packing Group	III

Drum Label(s)

Marine Pollutant placard for IMO/IMDG only

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.

Toxic Substance Control Act (TSCA) Inventory: All substances in this product are listed on the TSCA Inventory. This product 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: Not listed

Superfund Amendments and Reauthorization Act (SARA)
SARA Section 311/312 Hazard Categories
May cause an allergic skin reaction Causes serious eye damage May cause respiratory irritation May damage fertility

SARA 313 Information: Bisphenol A (CAS #80-05-7) is 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: None of the components of this product exceed the threshold (de minimis) reporting levels established by these sections of Title III of SARA.

SARA 302/304 Emergency Planning & Notification: None of the components of this product exceed the threshold (de minimis) reporting levels established by these sections of Title III of SARA.

Comprehensive Response Compensation and Liability Act (CERCLA): This material contains no CERCLA reportable substances.

Clean Air Act (CAA)
This product does not contain Hazardous Air Pollutants (HAPs) designated in CAA Section 112 (b).
This product does not contain Class 1 ozone depletors.
This product does not contain Class 2 ozone depletors.

Clean Water Act (CWA)
This product does not contain Hazardous Substances.
This product does not contain Priority Pollutants.
This product does not contain Toxic Pollutants.

U.S. State Regulations

California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986

⚠**WARNING:** This product will expose you to Bisphenol A, which is known to the state of California to cause birth defects or reproductive harm. For more information go to www.P65Warnings.ca.gov.

Other U.S. State Inventories

Bisphenol A (CAS #80-05-7) is listed on the following State Hazardous Substance Inventories, Right-to-Know lists and/or Air Quality/Air Pollutants lists: DE, MN, NY, PA.

Canada

WHMIS Hazard Classification

May cause an allergic skin reaction | Causes serious eye damage | May cause respiratory irritation | May damage fertility

Canadian National Pollutant Release Inventory (NPRI): Bisphenol A (CAS #80-05-7) is listed on the NPRI.

European Economic Community

WGK, Germany (Water danger/protection): 2 (obviously hazardous to water)

Global Chemical Inventory Lists

Country	Inventory Name	Listed
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 (KECI)	Yes
Philippines	Philippines Inventory of Chemicals and Chemical Substances (PICCS)	Yes

*Yes - All components of this product comply 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

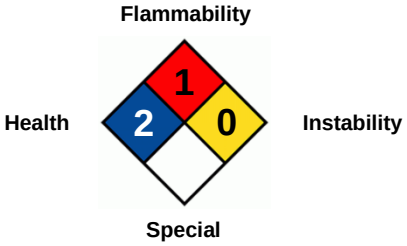
Hazardous Material Information System (HMIS)

C= safety glasses, gloves & apron

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)



Abbreviation Key

ACGIH	American Conference of Governmental Industrial Hygienists	**LD_{Lo}**	Lowest Lethal Dose
ADR	Accord Dangereux Routier (European regulations concerning the international transport of dangerous goods by road)	**mppcf**	Millions of Particles Per Cubic Foot
CAS	Chemical Abstract Services	**NA**	North America
CFR	Code of Federal Regulations	**NAERG**	North American Emergency Response Guide Book
COC	Cleveland Open Cup	**NIOSH**	National Institute for Occupational Safety & Health
DOT	Department of Transportation	**NTP**	National Toxicology Program
EC_{50}	Half maximal effective concentration	**OSHA**	Occupational Safety and Health Administration
EMS	Emergency Response Procedures for Ships Carrying	**PBT**	Persistent, Bioaccumulating and Toxic

EPA	Environmental Protection Agency
ErC_{50}	Reduction of Growth Rate
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
IC_{50}	Half Maximal Inhibitory Concentration
ICAO	International Civil Aviation Organization
IDLH	Immediately Dangerous to Life and Health
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
LC_{50}	50% Lethal Concentration
LD_{50}	50% Lethal Dose
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.

Revision date: 14 January 2021, Version 3

<end of document>