ESSENTIAL CHEMISTRY. INNOVATIVE SOLUTIONS.

SAFETY DATA SHEET

Print Date: August 24, 2017

Section 1: Product & Company Information

Product Identifier: Xylene

Other Means of Identification
Product Number: No data available.

Recommended Use and Restrictions on Use
Recommended Use: Solvent
Restrictions on Use : No data available.

Manufacturer / Importer / Supplier / Distributor Information
Company Name: CORECHEM Inc.
Address: 4320 Greenway Drive
Knoxville, TN 37918
USA

Information Telephone Number: 1-865-524-4239
Fax Number: 1-865-524-3375
Website: www.corecheminc.com
Contact Person: Regulatory Manager
E-mail: regulatory@corecheminc.com

Emergency Phone Number: Chemtrec® 1-800-424-9300 / Outside USA 1-703-527-3887 *(monitored 24 hours/day)*

Section 2: Hazards Identification

GHS Hazard Classification(s)
In accordance with OSHA Hazard Communication Standard 29 CFR 1910.1200 (HazCom 2012).

Physical Hazard(s)
Flammable, Liquids - 3

Health Hazard(s)
Acute Toxicity, Dermal - 4
Acute Toxicity, Inhalation - 4
Aspiration Hazard - 1
Corrosion/Irritation, Skin - 2
(Corrosion)Damage/Irritation, Eye - 2A
Carcinogenicity - 2
Specific Target Organ Toxicity (STOT)-Respiratory Irritation, Single exposure - 3
Specific Target Organ Toxicity (STOT), Repeated exposure - 1

Environmental Hazard(s)
Aquatic, Acute - 2

Label Elements
Signal Word
DANGER

Hazard Symbol(s)

Hazard Statement(s)
H226: Flammable liquid and vapor.
H304: May be fatal if swallowed and enters airways.
H312: Harmful in contact with skin.
H315: Causes skin Irritation.
H319: Causes serious eye Irritation.
H332: Harmful if inhaled.
H335: May cause respiratory Irritation.
H351: Suspected of causing cancer.
H372: Causes damage to organs.
H401: Toxic to aquatic life.

Precautionary Statements
General
Not applicable.

Prevention

P201: Obtain special instructions before use.
P202: Do not handle until all safety precautions have been read and understood.
P210: Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P233: Keep container tightly closed.
P240: Ground/bond container and receiving equipment.
P241: Use explosion-proof electrical/ventilating/lighting/equipment.
P242: Use only non-sparking tools.
P243: Take precautionary measures against static discharge.
P260: Do not breathe dust/fume/gas/mist/vapors/spray.
P261: Avoid breathing dust/fume/gas/mist/vapors/spray.
P264: Wash face, hands and any exposed skin thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.
P271: Use only outdoors or in a well-ventilated area.
P273: Avoid release to the environment.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P281: Use personal protective equipment as required.

Response

P301 + P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P302 + P352: IF ON SKIN: Wash with plenty of soap and water.
P303 + P361 + P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340: IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313: IF exposed or concerned: Get medical advice/attention.
P312: Call a POISON CENTER or doctor/physician if you feel unwell.
P314: Get medical advice/attention if you feel unwell.
P321: Specific treatment (see supplemental first aid instructions on this label).
P322: Specific measures (see supplemental first aid instructions on this label).
P331: Do NOT induce vomiting.
P332 + P313: If skin irritation occurs: Get medical advice/attention.
P337 + P313: If eye irritation persists: Get medical advice/attention.
P362: Take off contaminated clothing and wash before reuse.
P363: Wash contaminated clothing before reuse.
P370 + P378: In case of fire: Use suitable extinguishing media for extinction.

Storage

P403 + P233: Store in a well-ventilated place. Keep container tightly closed.
P403 + P235: Store in a well-ventilated place. Keep cool.
P405: Store locked up.

Disposal

P501: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Hazard(s) not otherwise classified (HNOC)

Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapor. May cause flash fire or explosion.

Section 3: Composition/Information on Ingredients

Mixture

Chemical Identity [2]	Common Name/Synonym(s)	CAS # [3]	Weight %	Impurity or Stabilizing Additive
M-Xylene	-	108-38-3	30 - 60%	No
P-Xylene	-	106-42-3	10 - 30%	No
Ethyl Benzene	-	100-41-4	10 - 30%	No
O-Xylene	-	95-47-6	10 - 30%	No

1. Information regarding the composition and the percent ranges of the mixtures ingredients are not presented as it Confidential Business Information (CBI). Where a medical emergency exists (as determined by medical professional), timely disclosure of CBI is assured. The information omitted pertains to only the names of the substances and the concentration in the mixture (product) and can only be requested by a doctor/physician or Local/State/Provincial or Federal Authority.
2. Non-hazardous ingredients are not presented as to protect the proprietary formula of the product.
3. "—"Indicates ingredient is a mixture and contains multiple ingredients or may have no identifying CAS number.

Section 4: First-Aid Measures

General Information

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Wash contaminated clothing before reuse.

Inhalation

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

Skin Contact

Take off immediately all contaminated clothing. Wash off IMMEDIATELY with plenty of water for at least 15-20 minutes. Get medical attention immediately! Wash clothing separately before reuse. Destroy or thoroughly clean contaminated shoes.

Eye Contact

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control center immediately.

Ingestion

Call a physician or poison control center immediately. Rinse mouth. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Most important symptoms/effects, acute and delayed

Symptoms

Irritating to eyes, respiratory system and skin.

Indication of immediate medical attention and special treatment needed

Hazards

No data available.

Treatment

Treat symptomatically. Symptoms may be delayed.

Section 5: Fire-Fighting Measures

General Fire Hazards

In case of fire and/or explosion do not breathe fumes. Use water spray to keep fire-exposed containers cool. Move containers from fire area if you can do so without risk. Water may be ineffective in fighting the fire. Fight fire from a protected location.

Suitable (and Unsuitable) Extinguishing Media

Suitable Extinguishing Media

Extinguishing powder, alcohol resistant foam, carbon dioxide, water fog

Unsuitable Extinguishing Media

Avoid water in straight hose stream; will scatter and spread fire.

Specific Hazards Arising from the Chemical

Vapors may cause a flash fire or ignite explosively. Vapors may travel considerable distance to a source of ignition and flash back. Prevent buildup of vapors or gases to explosive concentrations.

Special Protective Equipment and Precautions for Firefighters

Special Fire-Fighting Equipment Procedures

Use water spray to keep fire-exposed containers cool. Water may be ineffective in fighting the fire. Fight fire from a protected location. Move containers from fire area if you can do so without risk.

Special Protective Equipment for Fire-Fighters

As in any fire, wear self-contained breathing apparatus pressure-demand (OSHA/NIOSH approved or equivalent) and full protective gear.

Section 6: Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures

Use personal protective equipment. See Section 8 of the SDS for Personal Protective Equipment. Keep unauthorized personnel away. Ventilate closed spaces before entering them. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Evacuate area.

Methods and Materials for Containment and Clean-Up

Eliminate all ignition sources if safe to do so. Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Clean surface thoroughly to remove residual contamination. Dike far ahead of larger spill for later recovery and disposal.

Notification Procedures

In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

Environmental Precautions

Dike for later disposal. Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk. Inform authorities if large amounts are involved.

Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

Section 7: Handling and Storage

Precautions for Safe Handling

DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Take precautionary measures against static discharges. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Ground/bond container and receiving equipment. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using the product. Use caution when adding this material to water. See Section 8 of the SDS for Personal Protective Equipment. Avoid contact with eyes. Avoid contact with skin.

Conditions for Safe Storage, including any Incompatibilities

Keep away from food, drink and animal feeding stuffs. Do not store in metal containers. Ground container and transfer equipment to eliminate static electric sparks. Comply with all national, state, and local codes pertaining to the storage, handling, dispensing, and disposal of flammable liquids. Keep container tightly closed. Store in cool, dry place. Store in a well-ventilated place.

Section 8: Exposure Controls/Personal Protection

Control Parameters

Occupational Exposure Limits

Chemical Identity	Type	Value	Source
M-Xylene	TWA	100 ppm	US. ACGIH Threshold Limit Values
M-Xylene	STEL	150 ppm	US. ACGIH Threshold Limit Values
M-Xylene	PEL	100 ppm 435 mg/m3	US OSHA Table Z-1
M-Xylene	STEL	150 ppm 655 mg/m3	US OSHA Table Z-1
M-Xylene	TWA	100 ppm 435 mg/m3	US OSHA Table Z-1
P-Xylene	STEL	150 ppm	US. ACGIH Threshold Limit Values US.
P-Xylene	TWA	100 ppm	US. ACGIH Threshold Limit Values
P-Xylene	PEL	100 ppm 435 mg/m3	US OSHA Table Z-1
P-Xylene	STEL	150 ppm 655 mg/m3	US OSHA Table Z-1
P-Xylene	TWA	100 ppm 435 mg/m3	US OSHA Table Z-1
Ethyl Benzene	TWA	20 ppm	US. ACGIH Threshold Limit Values
Ethyl Benzene	PEL	100 ppm 435 mg/m3	US OSHA Table Z-1
Ethyl Benzene	TWA	100 ppm 435 mg/m3	US OSHA Table Z-1
Ethyl Benzene	STEL	125 ppm 545 mg/m3	US OSHA Table Z-1
O-Xylene	TWA	100 ppm	US. ACGIH Threshold Limit Values
O-Xylene	STEL	150 ppm	US. ACGIH Threshold Limit Values
O-Xylene	PEL	100 ppm 435 mg/m3	US OSHA Table Z-1
O-Xylene	STEL	150 ppm 655 mg/m3	US OSHA Table Z-1
O-Xylene	TWA	100 ppm 435 mg/m3	US OSHA Table Z-1

Biological Limit Values

Chemical Identity	CAS #	Parameter	Value	Biological Specimen	Source
M-Xylene	108-38-3	Methylhippuric acids	1.5 g/g	Creatinine in Urine	ACGIH – Biological Exposure Indices (BEI)
	Remarks: Sampling Time: End of Shift				
P-Xylene	106-42-3	Methylhippuric acids	1.5 g/g	Creatinine in Urine	ACGIH – Biological Exposure Indices (BEI)
	Remarks: Sampling Time: End of Shift				
Ethyl Benzene	100-41-4	Sum of mandelic acid and phenylglyoxylic acid	0.7 g/g	Creatinine in Urine	ACGIH – Biological Exposure Indices (BEI)
	Remarks: Sampling Time: End of shift at end of work week				
O-Xylene	95-47-6	Methylhippuric acids	1.5 g/g	Creatinine in Urine	ACGIH – Biological Exposure Indices (BEI)
	Remarks: Sampling Time: End of Shift				

Appropriate Engineering Controls

No data available.

Individual protection measures, such as personal protective equipment (PPE)

General Information

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. An eye wash and safety shower must be available in the immediate work area. Use explosion-proof ventilation equipment.

Eye/Face Protection

Wear safety glasses with side shields (or goggles) and a face shield. Wear a full-face respirator, if needed.

Skin Protection

Hand Protection

Wear appropriate chemical resistant gloves.

Other

Wear appropriate chemical resistant clothing.

Respiratory Protection

In case of inadequate ventilation use suitable respirator.

Hygiene Measures

When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated footwear that cannot be cleaned. Wash hands before breaks and immediately after handling the product. Wash contaminated clothing before reuse. Avoid contact with eyes, skin, and clothing.

Section 9: Physical and Chemical Properties

Appearance:	
Physical State:	Liquid
Color:	Colorless
Odor:	Characteristic
Odor Threshold:	No data available.
pH:	Not applicable.
Melting Point/Freezing Point:	-41.5 °C
Initial Boiling Point and Boiling Range:	139 °C
Flash Point:	29 °C
Evaporation Rate (butyl acetate=1)**:**	No data available.
Flammability (solid, gas):	No data available.
Upper/Lower Limit on Flammability or Explosive Limits	
Flammability Limit – Upper:	7 % (V)
Flammability Limit – Lower:	1 % (V)
Explosive Limit – Upper:	No data available.
Explosive Limit – Lower:	No data available.
Vapor Pressure:	1.1 kPa
Vapor Density (air =1)**:**	No data available.
Relative Density (water=1)**:**	0.86 (20 °C)
Solubility(ies):	
Solubility in water:	Insoluble in water
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	No data available.
Auto-Ignition Temperature:	464 °C
Decomposition Temperature:	No data available.
Viscosity:	No data available.

Other Information:

Molecular Weight:	No data available.
Formula:	No data available.

Section 10: Stability and Reactivity

Reactivity

No dangerous reaction known under conditions of normal use.

Chemical Stability

Material is stable under normal conditions.

Possibility of Hazardous Reactions

Hazardous polymerization does not occur.

Conditions to Avoid

Heat, sparks, flames. Contact with incompatible materials.

Incompatible Materials

Strong oxidizing agents. Strong acids.

Hazardous Decomposition Products

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

Section 11: Toxicological Information

Information on routes of exposure

Ingestion: May be harmful if swallowed.
Inhalation: Harmful if inhaled.
Skin Contact: Harmful in contact with skin. Causes skin irritation.
Eye Contact: Causes serious eye irritation.

Information on Toxicological Effects

Acute Toxicity (List all possible routes of exposure)

Oral

Xylene: ATEmix (Rat): 3,190 mg/kg

Dermal

M-Xylene: LD 50 (Rabbit): 12,100 mg/kg
Ethyl Benzene: LD 50 (Rabbit): 17,800 mg/kg

Inhalation

M-Xylene: LC 50 (Mouse, 6 h): 5,300 mg/l
P-Xylene: LC 50 (Mouse, 6 h): 3,900 mg/l
O-Xylene: LC 50 (Mouse, 6 h): 4,600 mg/l

O-Xylene: LC 50 (Rat, 4 h): 6,350 mg/l

Repeated Dose Toxicity
No data available.

Skin Corrosion/Irritation
Causes skin irritation.

Serious Eye Damage/Eye Irritation
Causes serious eye irritation.

Respiratory/Skin Sensitization
Not a skin sensitizer.

Carcinogenicity
IARC Monographs on the Evaluation of Carcinogenic Risks to Humans
Group 2B, Probably carcinogenic to humans.
US. National Toxicology Program (NTP) Report on Carcinogens
No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)
No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Germ Cell Mutagenicity
In Vitro
No mutagenic components identified.
In Vivo
No mutagenic components identified.

Reproductive Toxicity
May damage fertility or the unborn child

Specific Target Organ Toxicity – Single Exposure
Narcotic effect. Respiratory tract irritation.

Specific Target Organ Toxicity – Repeated Exposure
Central nervous system. Auditory organs. Lungs.

Aspiration Hazard
May be fatal if swallowed and enters airways.

Other Effects
None known.

Section 12: Ecological Information

Ecotoxicity
Acute Hazards to the Aquatic Environment
Fish
M-Xylene: LC 50 (Fathead minnow (Pimephales promelas), 96 h): 14.31 - 18.01 mg/l Mortality
M-Xylene: LC 50 (Rainbow trout, donaldson trout (Oncorhynchus mykiss), 96 h): 8.4 mg/l Mortality
P-Xylene: LC 50 (Rainbow trout, donaldson trout (Oncorhynchus mykiss), 96 h): 2.6 mg/l Mortality
P-Xylene: LC 50 (Fathead minnow (Pimephales promelas), 96 h): 7.2 - 9.9 mg/l Mortality
Ethyl Benzene: LC 50 (Fathead minnow (Pimephales promelas), 96 h): 9.1 - 15.6 mg/l Mortality
Ethyl Benzene: LC 50 (Bluegill (Lepomis macrochirus), 96 h): 93 - 211 mg/l Mortality
Ethyl Benzene: LC 50 (Carp (Leuciscus idus melanotus), 48 h): 44 mg/l Mortality
O-Xylene: LC 50 (Goldfish (Carassius auratus), 24 h): 13 mg/l Mortality
O-Xylene: LC 50 (Guppy (Poecilia reticulata), 96 h): 12 mg/l Mortality
O-Xylene: LC 50 (Bluegill (Lepomis macrochirus), 96 h): 11.6 - 22.4 mg/l Mortality
O-Xylene: LC 50 (Fathead minnow (Pimephales promelas), 96 h): 11.6 - 22.4 mg/l Mortality
O-Xylene: LC 50 (Goldfish (Carassius auratus), 96 h): 11.6 - 22.4 mg/l Mortality

Aquatic Invertebrates
M-Xylene: LC 50 (Water flea (Daphnia magna), 48 h): 28.1 - 87.4 mg/l Mortality
M-Xylene: LC 50 (Brine shrimp (Artemia sp.), 48 h): 5.29 - 11.7 mg/l Mortality
P-Xylene: LC 50 (Brine shrimp (Artemia sp.), 24 h): 22.1 - 39.4 mg/l Mortality
P-Xylene: LC 50 (Water flea (Daphnia magna), 48 h): 11.3 - 51.8 mg/l Mortality
Ethyl Benzene: EC 50 (Water flea (Daphnia magna), 48 h): 1.37 - 4.4 mg/l Intoxication
Ethyl Benzene: EC 50 (Brine shrimp (Artemia sp.), 48 h): 3.58 - 9.46 mg/l Intoxication
Ethyl Benzene: LC 50 (Water flea (Daphnia magna), 48 h): 10.6 - 17.2 mg/l Mortality
Ethyl Benzene: LC 50 (Brine shrimp (Artemia sp.), 48 h): 3.91 - 13.7 mg/l Mortality
O-Xylene: EC 50 (Water flea (Daphnia magna), 48 h): 0.78 - 2.51 mg/l Intoxication
O-Xylene: LC 50 (Water flea (Daphnia magna), 48 h): 5.26 - 33.9 mg/l Mortality
O-Xylene: LC 50 (Brine shrimp (Artemia sp.), 48 h): 13.4 - 31.1 mg/l Mortality

Toxicity to Aquatic Plants
No data available.

Chronic Hazards to the Aquatic Environment

Fish

No data available.

Aquatic Invertebrates

No data available.

Toxicity to Aquatic Plants

No data available.

Persistence and Degradability

Biodegradation

There are no data on the degradability of this product.

BOD/COD Ratio

No data available.

Bioaccumulative Potential

Bioconcentration Factor (BCF)

No data available on bioaccumulation.

Partition Coefficient n-octanol / water (log Kow)

M-Xylene: Log Kow: 3.20
P-Xylene: Log Kow: 3.15
Ethyl Benzene: Log Kow: 3.15
O-Xylene: Log Kow: 3.12

Mobility in Soil

The product is insoluble in water and will spread on the water surface.

Other Adverse Effects

Toxic to aquatic life.

Section 13: Disposal Considerations

Disposal Instructions

Discharge, treatment, or disposal may be subject to national, state, or local laws. Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Contaminated Packaging

Since emptied containers retain product residue, follow label warnings even after container is emptied.

Section 14: Transportation Information

US Department of Transportation (DOT)

UN Number:	UN1307
UN Proper Shipping Name:	Xylenes
Technical Name:	
Hazard Class :	3
Subsidiary Hazard Risk:	-
Packing Group:	III
DOT Label/Placard Exemptions:	Not determined
Special Provisions:	B1, IB3, T2, TP1
Packaging Exceptions:	49CFR 173.150
Packaging Non-Bulk:	49CFR 173.203
Packaging Bulk:	49CFR 173.242
Reportable Quantity (RQ):	100lb (45.4kg)
Marine Pollutant:	No
Poison Inhalation Hazard:	No
Special precautions for user:	Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.
Emergency Response Guidebook (ERG) #:	130

Important Note: Shipping descriptions may vary based on mode of transport, quantities, package size, and/or origin and destination. Consult your company's Hazardous Materials/Dangerous Goods expert for information specific to your situation.

Section 15: Regulatory Information

US Federal Regulations

Toxic Substance Control Act (TSCA), Chemical Substance Inventory, Section 8(b)

This product or ingredient(s) are listed on the TSCA inventory. Any impurities present in this product are exempt from listing.

Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous Substance List (40 CFR 302.4)

The following chemical(s) in this material are subject to reporting levels established by CERCLA:

M-Xylene (CAS# 108-38-3)
P-Xylene (CAS# 106-42-3)

Ethyl Benzene (CAS# 100-41-4)
O-Xylene (CAS# 95-47-6)
Toluene (CAS# 108-88-3)

Clean Air Act (CAA), Section 112(r)

No chemical(s) in this material are subject to the reporting requirements of CAA.

Emergency Planning and Community Right-To-Know Act (EPCRA)

EPCRA 302 Extremely Hazardous Substance

No chemical(s) in this material are subject to the reporting requirements of SARA Title III, Section 302.

EPCRA 304 Emergency Response Notification

No chemical(s) in this material are subject to the reporting requirements of SARA Title III, Section 304.

EPCRA 311/312 Emergency and Hazardous Materials Reporting

Fire Hazard:	Yes
Sudden Release of Pressure:	No
Reactive:	No
Acute (Immediate) Health Hazard:	Yes
Chronic (Delayed) Health Hazard:	Yes

EPCRA 313 Toxic Chemical Release Inventory (TRI) Reporting

The following chemical(s) in this material are subject to reporting levels established by SARA Title III, Section 313:

M-Xylene (CAS# 108-38-3)
P-Xylene (CAS# 106-42-3)
Ethyl Benzene (CAS# 100-41-4)
O-Xylene (CAS# 95-47-6)

US State Regulations

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65)

This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

Important Note: Due to the changing nature of regulatory requirements, the information in this document should NOT be considered all-inclusive or authoritative. Users should make their own investigations to determine the suitability of the information for their particular purposes. International, Federal, State and Local regulations should be consulted to determine compliance with all required reporting requirements.

Section 16: Other Information

Hazardous Materials Identification System (HMIS®) Classification

Health Hazard: 2
Chronic Health Hazard: *
Flammability: 3
Physical Hazard: 0
(Hazard Rating: 0 – Minimal / 1 – Slight / 2 – Moderate / 3 – Serious / 4 – Severe)

National Fire Protection Association (NFPA 704) Rating

Health Hazard: 2
Fire Hazard: 3
Reactivity Hazard: 0
Special: N/A
(Hazard Rating: 0 – Minimal / 1 – Slight / 2 – Moderate / 3 – Serious / 4 – Severe)

Prepared By:	Regulatory Manager
Version #:	001
Issue Date:	September 29, 2015
Revision Date:	-
Revisions:	-

Key to Abbreviations and Acronyms

ATE - Acute Toxicity Estimate
BCF - Bioconcentration Factor
EC50 - Effective concentration, 50%
IDHL – Immediately Dangerous to Life and Health
Kg – Kilogram
l – Liter
lb – Pound
LC50 - Lethal Concentration, 50%
LD50 - Lethal Dose, 50%
mg - milligram
ml – milliliter
N/A – Not Applicable
N/D – Not Determined
PEL – Permissible Exposure Limit
REL – Recommended Exposure Limit
STEL – Short-term Exposure Limit
TWA - Time weighted average
ACGIH - American Conference of Industrial Hygienists
AIHA – American Industrial Hygiene Association
BEI - Biological Exposure Indices
CAS – Chemical Abstracts Service
DOT – US Department of Transportation
EPA – US Environmental Protection Agency
GHS - Globally Harmonized System of Classification and Labelling of Chemicals
IARC - International Agency for Research on Cancer
IATA - International Air Transport Association
IBC - Intermediate Bulk Container
IMDG - International Maritime Dangerous Goods
NIOSH – National Institute for Occupational Safety and Health
NTP – National Toxicology Program
OSHA – US Occupational Health and Safety Administration
SARA – US EPA Superfund Amendments and Reauthorization Act
TSCA – US EPA Toxic Substances Control Act
UN - United Nations

References

HSDB® - Hazardous Substances Data Bank

Disclaimer

The information in this SDS was obtained from sources which we believe are reliable. HOWEVER, THE INFORMATION IS PROVIDED WITHOUT ANY WARRANTY, EXPRESS OR IMPLIED, REGARDING ITS CORRECTNESS. 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 RESPONSIBILITY AND EXPRESSLY DISCLAIM LIABILITY FOR LOSS, DAMAGE OR EXPENSE ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE HANDLING, STORAGE, USE OR DISPOSAL OF THE PRODUCT. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.