

# SAFETY DATA SHEET

**Phenix Chemical LLC** 

# **OMNI 10**

Date Issued: 11 February 2020 SDS No: PHENIX1001

#### 1. PRODUCT and COMPANY IDENTIFICATION

PRODUCT NAME: ONMI 10	24 HR. EMERGENCY TELEPHONE NUMBERS
GENERAL USE: Industrial Solvent	Emergency Phone: 843-991-2957
GENERIC NAME: mixture	For emergency, spill, leak, fire, exposure or
	accident, call: CHEMTREC: 1-800-424-9300
DISTRIBUTOR:	Outside of the United States, call: 703-527-3887
Phenix Chemical, LLC	(collect calls accepted)
1875 Second Baxter Xing	
Fort Mill, SC 29708	

#### 2. HAZARDS IDENTIFICATION

#### **GHS CLASSIFICATION**

Classification of the substance or mixture GHS Classification in accordance with 29 CFR 1910 (OSHA HCS) Flammable liquids (Category 3), H226 Acute toxicity, Oral (Category 4), H302 Skin irritation (Category 2), H315 Serious eye damage (Category 1), H318 Specific target organ toxicity - single exposure (Category 3), Respiratory system, Central nervous system, H335, H336 For the full text of the H-Statements mentioned in this Section, see Section 16.

GHS LABEL		
SIGNAL WORD:	Danger	
HAZARD STATEMENTS		
H226	Flammable liquid and vapor.	
H304	May be fatal if swallowed and enters airways	
H312 + H332	Harmful in contact with skin or if inhaled	
H315	Causes skin irritation.	
H351	Suspected of causing cancer.	
H373	May cause damage to organs through prolonged or repeated exposure.	
H411	Toxic to aquatic life with long lasting effects.	
Precautionary statement(s)		
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.	
P264	Wash skin thoroughly after handling.	
P271	Use only outdoors or in a well-ventilated area.	
P273	Avoid release to the environment.	
P280	Wear protective gloves/ eye protection/ face protection.	
P281	Use personal protective equipment as required.	
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.	
P303 + P361 + P353	IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.	
P304 + P340 + P312	IF INHALED: Remove victim to fresh air and keep at rest in a position	
F 504 + F 540 + F 512		
	comfortable for breathing. Call a POISON CENTER or doctor/ physician If you feel unwell.	
P308 + P313	IF exposed or concerned: Get medical advice/ attention.	
P331	Do NOT induce vomiting.	
P332 + P313	If skin irritation occurs: Get medical advice/ attention.	
P362	Take off contaminated clothing and wash before reuse.	
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for	
	extinction.	
P391	Collect spillage.	
P403 + P235	Store in a well-ventilated place. Keep container tightly closed.	
P405	Store locked up.	
P501	Dispose of contents/ container to an approved waste disposal plant.	

#### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS
Toluene	40 - 50%	108-88-3
Acetone	15 - 20%	67-64-1
Methanol	10 - 20%	67-56-1
Methyl Acetate	15 - 20%	79-20-9

# 4. FIRST AID MEASURES

EYES:	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.		
SKIN:	Wash off with soap and plenty of water. Consult a physician.		
INGESTION:	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician		
INHALATION:	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.		

NOTES TO PHYSICIAN:	Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
Most important symptoms and effects, both acute and delayed	The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11
Indication of any immediate medical attention and special treatment needed	No data available

#### 5. FIRE FIGHTING MEASURES

Extinguishing media	
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards arising from the substance or mixture	Carbon oxides
Advice for firefighters	Wear self-contained breathing apparatus for firefighting if necessary.
Further information	Use water spray to cool unopened containers.

#### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas. For personal protection see section 8.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Methods and materials for containment and cleaning up protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).	
Reference to other sections	For disposal see section 13.
SPECIAL PROTECTIVE EQUIPMENT: EMERGENCY & NON-EMERGENCY RESPONDERS	Refer to Section 13 of this SDS for appropriate exposure controls and personal protective equipment (PPE).

# 7. HANDLING AND STORAGE

GENERAL PROCEDURES:	Handle in accordance with good industrial hygiene and safety practices. These practices include but are not limited to avoiding unnecessary exposure and prompt removal of material from eyes, skin and clothing. Do not breathe material. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling. If needed, take first aid actions as indicated in Section 4 of this SDS.
HANDLING:	Use only with adequate ventilation. Wear appropriate personal protective equipment and use exposure controls as indicated in Section 8 of this SDS. Avoid contact with skin and eyes. Avoid breathing gas. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Do not reuse container. Remove contaminated clothing

	immediately. Wash with soap and water after working with this product.
STORAGE:	Keep in airtight container away from all heat sources. Store in a segregated and approved area. Store in a cool, dry location, away from direct sunlight, sources of intense heat, or where freezing is possible. Keep container in a well-ventilated area. Store away from incompatible materials. Store in the original container or an approved alternative made from compatible material. Do not store in unlabeled containers. Treat empty containers in a similar fashion as residual product may exist. Use appropriate containment to avoid environmental contamination.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **EXPOSURE GUIDELINES**

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)					
		EXPOSURE LIMITS			S
	-	OSHA PEL		ACGIH TLV	
Chemical Name		ppm	mg/m <sup>3</sup>	ppm	mg/m
Toluene	TWA	200	375	20	NE
	STEL	150	560	NE	NE
Acetone	TWA	1000	2400	250	NE
	STEL	NE	NE	500	NE
Methanol	TWA	200	260	200	NE
	STEL	NE	NE	250	NE
Methyl Acetate	TWA	200	610	NE	NE
	STEL	NE	NE	NE	NE

ENGINEERING CONTROLS:	Provide adequate general and local exhaust ventilation to meet exposure limit requirements. Provide readily accessible eye wash stations and emergency showers. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all
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usually provided for a limited time or under certain circumstances	instructions and limitations supplied with the equipment since protection is
usually provided for a limited time of under certain circumstances.	usually provided for a limited time or under certain circumstances.

Eye/face protection	Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
Skin protection	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
Full contact	Material: Fluorinated rubber Minimum layer thickness: 0.7 mm Break through time: 480 min Material tested: Vitoject® (KCL 890 / Aldrich Z677698, Size M)
Splash contact	Material: Fluorinated rubber Minimum layer thickness: 0.7 mm Break through time: 480 min Material tested: Vitoject® (KCL 890 / Aldrich Z677698, Size M)

PRACTICES:	Use good personal hygiene practices. Avoid repeated and/or prolonged skin exposure. Wash hands before eating, drinking, smoking, or using toilet facilities. Promptly remove contaminated clothing and launder before reuse. Shower after
	work using plenty of soap and water.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

a.	Appearance	Form: clear, liquid
		Color: colorless
b.	Odor	No data available
C.	Odor Threshold	No data available
d.	рН	No data available
e.	Melting point/freezing point	< 0 °C (< 32 °F)
f.	Initial boiling point and boiling range	137 - 140 °C (279 - 284 °F) - lit.
g.	Flash point	25 °C (77 °F) - closed cup
h.	Evaporation rate	No data available
i.	Flammability (solid, gas)	No data available
j.	Upper/lower flammability or explosion limits	UEL: 7%(V) LEL: 1.1%(V)
k.	Vapor pressure	24 hPa (18 mmHg) at 37.70 °C (99.86 °F)
Ι.	Vapor density	3.67 - (Air = 1.0)
m.	Relative density	0.86 g/mL at 25 °C (77 °F)
n.	Water solubility	No data available
0.	Partition coefficient: n-octanol/water	No data available
р.	Auto ignition temperature	No data available
q.	Decomposition temperature	No data available
r.	Viscosity	No data available
s.	Explosive properties	No data available
t.	Oxidizing properties	No data available
Oth	ner safety information	
Rela	ative vapor density	3.67 - (Air = 1.0)

### **10. STABILITY AND REACTIVITY**

	No data available
Reactivity	
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Vapors may form explosive mixture with air
Conditions to avoid	Heat, flames and sparks
Incompatible materials	Strong oxidizing agents
Hazardous decomposition products	Other decomposition products - No data available
	In the event of fire: see section 5

#### **11. TOXICOLOGICAL INFORMATION**

#### ACUTE

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Chemical Name	ORAL LD50 (rat)	DERMAL LD50 (guinea	INHALATION LC <sub>50</sub> (rat)
Acetone	5800 mg/kg	7,426 mg/kg	50,100 mg/m3

Skin corrosion/irritation	Skin - Rabbit
	Result: Mild skin irritation - 24 h
Serious eye damage/eye irritation	Eyes - Rabbit
Schous cyc daniago/cyc innation	Result: Eye irritation - 24 h
Respiratory or skin sensitization	- Guinea pig
	Result: Does not cause skin sensitization.
Germ cell mutagenicity	No data available
Carcinogenicity	This product is or contains a component that is not classifiable
oaremogeneity	as to its carcinogenicity based on its IARC, ACGIH, NTP, or
	EPA classification.
	IARC: No component of this product present at levels
	greater than or equal to 0.1% is identified as
	probable, possible or confirmed human carcinogen by
	IARC.
	NTP: 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.
	OSHA: 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.
Reproductive toxicity	No data available
Specific target organ toxicity - single exposure	May cause drowsiness or dizziness
Specific target organ toxicity - repeated exposure	No data available
Aspiration hazard	No data available
Additional Information	RTECS: AL3150000
	To the best of our knowledge, the chemical, physical, and
	toxicological properties have not been thoroughly
	investigated.
	Kidney – irregularities – based on human evidence
	Skin – Dermatitis – Based on human evidence

Chemical Name	ORAL LD50 (rat)	DERMAL LD50 (rabbit)	INHALATION LC <sub>50</sub> (rat)
Toluene	> 5,580 mg/kg	12,196 mg/kg	4 h - 12,500 - 28,800 mg/m3

Skin corrosion/irritation	Skin - Rabbit	
	Result: Skin irritation - 24 h	
Serious eye damage/eye irritation	Eyes - Rabbit	
	Result: No eye irritation	
	(OECD Test Guideline 405)	
Respiratory or skin sensitization	No data available	
Germ cell mutagenicity	Rat	
	Liver	

	DNA damage
Carcinogenicity	IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Toluene)
	NTP: 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.
	OSHA: 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.
Reproductive toxicity	Damage to fetus possible Suspected human reproductive toxicant
Specific target organ toxicity - single exposure	No data available
Specific target organ toxicity - repeated exposure	No data available
Aspiration hazard	No data available
Additional Information	RTECS: XS5250000
	Lung irritation, chest pain, pulmonary edema, Inhalation studies on toluene have demonstrated the development of inflammatory and ulcerous lesions of the penis, prepuce, and scrotum in animals., Central nervous system
	Stomach - Irregularities - Based on Human Evidence Stomach - Irregularities - Based on Human Evidence

Chemical Name	ORAL LD50 (rat)	DERMAL LD50 (rabbit)	INHALATION LC <sub>50</sub> (rat)
Methanol	1,187-2,769 mg/kg	17,100 mg/kg	4 h - 128.2 mg/l

Skin corrosion/irritation	Skin - Rabbit	
	Result: No skin irritation	
Serious eye damage/eye irritation	Eyes – Rabbit	
	Result: No eye irritation	
Respiratory or skin sensitization	Maximization Test (GPMT) – Guinea pig	
	Does not cause skin sensitization.	
	(OECD Test Guideline 406)	
Germ cell mutagenicity	Amers test	
	S. Typhimurium	
	Result: negative	
	In Vitro Assay	
	Fibroblast	
	Result: negative	
	Mutation in mammalian somatic cells.	
	Mutagenicity (in vivo mammalian bone marrow cytogenetic test,	
	chromosomal analysis)	
	Mouse – male and female	
	Result: negative	
Carcinogenicity	IARC: No component of this product present at levels	
	greater than or equal to 0.1% is identified as	
	probable, possible or confirmed human carcinogen by	
	IARC.	
	ACGIH: No component of this product present at levels	
	greater than or equal to 0.1% is identified as a	
	carcinogen or potential carcinogen by ACGIH.	
	NTP: 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.	

	OSHA: 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.
Reproductive toxicity	Damage to fetus not classifiable
	Fertility classification not possible from current data.
Specific target organ toxicity - single exposure	Causes damage to organs.
Specific target organ toxicity - repeated exposure	The substance or mixture is not classified as specific target organ
	toxicant, repeated exposure.
Aspiration hazard	No aspiration toxicity classification
Additional Information	RTECS: PC1400000
	Methyl alcohol may be fatal or cause blindness if swallowed. Effects due to ingestion may include:, Headache, Dizziness, Drowsiness, metabolic acidosis, Coma, Seizures. Symptoms may be delayed., Damage of the:, Liver, Kidney
	Stomach - Irregularities - Based on Human Evidence Stomach - Irregularities - Based on Human Evidence

Chemical Name	ORAL LD50 (rat)	DERMAL LD50 (guinea	INHALATION LC <sub>50</sub> (rat)
Methyl acetate	> 5,000	≻ 5,000	No data
	mg/kg	mg/kg	available

Skin corrosion/irritation	Skin - Rabbit	
	Result: Mild skin irritation - 24 h	
Serious eye damage/eye irritation	Eyes – Rabbit	
	Result: Moderate eye irritation – 24 h	
Respiratory or skin sensitization	No data available	
Germ cell mutagenicity	No data available	
Carcinogenicity	IARC: No component of this product present at levels	
	greater than or equal to 0.1% is identified as	
	probable, possible or confirmed human carcinogen by	
	IARC.	
	ACGIH: No component of this product present at levels	
	greater than or equal to 0.1% is identified as a	
	carcinogen or potential carcinogen by ACGIH.	
	NTP: 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.	
	OSHA: 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.	
Reproductive toxicity	No data available	
Specific target organ toxicity - single exposure	May cause drowsiness or dizziness	
Specific target organ toxicity - repeated exposure	No data available	
Aspiration hazard	No data available	
Additional Information	RTECS: A19100000	
	Narcosis, This product is metabolized into formic acid. Humans and	
	other primates metabolize formic acid more slowly than do rodents.	
	Formic acid can build up in the body producing toxic effects possibly	
	leading to death; therefore, data from studies in rodents may have limited relevance for human risk assessment.	
	Stomach - Irregularities - Based on Human Evidence	

Stomach - Irregularities - Based on Human Evidence			nce	

# **12. ECOLOGICAL INFORMATION**

TOLUENE	
Toxicity	
Toxicity to fish	LC50 - Oncorhynchus mykiss (rainbow trout) - 7.63 mg/l - 96 h
	NOEC - Pimephales promelas (fathead minnow) - 5.44 mg/l - 7 d
Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia magna (Water flea) - 8.00 mg/l - 24 h

	Immobilization EC50 - Daphnia magna (Water flea) - 6 mg/l
	- 48 h
Toxicity to algae	EC50 - Chlorella vulgaris (Fresh water algae) - 245.00 mg/l
	24 h
	EC50 - Pseudokirchneriella subcapitata (green algae) -
	10.00 mg/l - 24 h
Persistence and degradability	No data available
Biodegradability	Result: - Readily biodegradable
Bio-accumulative potential	Bioaccumulation Leuciscus idus (Golden orfe) - 3 d
	- 0.05 mg/l
	erroe mg,
	Bioconcentration factor (BCF): 90
Mobility in soil	No data available
Results of PBT and vPvB assessment	PBT/vPvB assessment not available as chemical safety
	assessment not required/not conducted
Other adverse effects	An environmental hazard cannot be
	excluded in the event of
	unprofessional handling or disposal.
	Toxic to aquatic life.
ACETONE	
Toxicity	
Toxicity to fish	LC50 - Oncorhynchus mykiss (rainbow trout) - 5,540 mg/l -
-	196 h
l oxicity to daphnia and other aquatic invertebrates Toxicity to algae	LC50 - Daphnia magna (Water flea) - 8,800 mg/l - 48 h No data available
Persistence and degradability	
Biodegradability	Result: 91 % - Readily biodegradable. (OECD Test Guideline 301B)
Bioaccumulative potential	Does not bio-accumulate.
Mobility in soil	No data available
Results of PBT and vPvB assessment	PBT/vPvB assessment not available as chemical safety
	assessment not required/not conducted
Other adverse effects	No data available
METHANOL	
Toxicity	
Toxicity to fish	Mortality LC50 – Lepomis Macrochirus (Bluegill) –
	15,400.0 mg/l – 96 h
	NOEC – Oryzias latipes – 7,900 mg/l – 200 h
Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia magna (Water flea) - > 10,000.00 mg/l - 48
	h Orauth inhibition EOE0, Connodernaus consistent to the final
Toxicity to algae	Growth inhibition EC50 - Scenedesmus capricornutum (fresh
Develotories and developility	water algae) – 22,000.0 mg/l – 96 h
Persistence and degradability	No data available
Biodegradability	Aerobic – Exposure time 5 d
	Result: 72% - rapidly biodegradable
	Biochemical Oxygen Chemical Oxygen
	Demand (BOD) Demand (BOD)

	Demand (BOD) Demand (BOD)
	Theoretical oxygen demand 600 – 1,120 mg/g
	1, 420 mg/g
	1,500 mg/g
Bio-accumulative potential	Bio-accumulation Cyprinus carpio (carp) – 72 d
	At 20 °C - 5 mg/l
	Bio-concentration factor (BCF):1.0
Mobility in soil	Will not adsorb on soil.
Results of PBT and vPvB assessment	PBT/vPvB assessment not available as chemical safety
	assessment not required/not conducted
Other adverse effects	Additional ecological information
	Avoid release to the environment.

METHYL ACETATE	
Toxicity	
Toxicity to fish	- Danio rerio (zebra fish) - 250 - 350 mg/l - 96 h
Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia magna (Water flea) - 700 - 1,000 mg/l - 24
	h
Toxicity to algae	No data available
Persistence and degradability	No data available
Biodegradability	No data available
Bio-accumulative potential	No data available
Mobility in soil	No data available
Results of PBT and vPvB assessment	PBT/vPvB assessment not available as chemical safety
	assessment not required/not conducted
Other adverse effects	No data available

# **13. DISPOSAL CONSIDERATIONS**

Waste treatment methods	
Product	Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non- recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.
Contaminated packaging	Dispose of as unused product

# **14. TRANSPORT INFORMATION**

DOT (US)					
UN number:	1993	Class:	3	Packing Group:	II
Proper shipping name:		ne:	Flammabl	e Liquid n.o.s.(tolu	ene, acetone)
Reportable Quantity (RQ):		(RQ):	5000 lbs.		
Poison inhalation hazard:			Νο		

IMDG								
UN number:	1993	Class:	3	Packing Group:	=	EMS-No:	S-D	
Proper shipping name: Flam			Flammabl	e Liquid n.o.s.(tolu	ene, a	acetone)		

ΙΑΤΑ							
UN number:	1993	Class:	3	Packing Group:	=		
Proper shipping name:		Flamma	ble Liquid n.o.s.(tolu	ene, a	acetone)		

# **15. REGULATORY**

Information United States	
SARA 302	No chemicals in this material are subject to the reporting requirements of SARA Title III,
Components	Section 302.
SARA 313	The following components are subject to reporting requirements of Sara
Components	Title III, Section 302. None.
SARA 311/312	Fire Hazard, Acute Health Hazard, Chronic Health Hazard
Components	
Massachusetts Right To	Acetone
Know Components	Toluene
	Methanol
Pennsylvania Right To	Methyl Acetate
Know Components	
New Jersey Right To Know Components	
California Prop. 65	This product does not contain any chemicals known to State of California to cause
Components	cancer, birth defects, or any other reproductive harm.

16. OTHER

INFORMATION					
Full text of H-Statements referred to under sections 2 and 3.					
Acute Tox	Acute Toxicity				
Aquatic Acute	Acute aquatic toxicity				
Aquatic Chronic	Chronic aquatic toxicity				
Asp Tox	Aspiration hazard				

Flam Liq	Flammable liquids
H225	Highly flammable liquids and vapor
H226	Flammable liquids
H304	May be fatal if swallowed and enters airways
H312	Harmful in contact with skin
H312 + H332	Harmful in contact with skin or if inhaled
H315	Causes skin irritation
H332	Harmful if inhaled
H351	Suspected of causing cancer
H373	May cause damage to organs through prolonged and repeated exposure
H401	Toxic to aquatic life
H411	Toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects
Skin Irri	Skin irritation
STOT RE	Specific target organ toxicity – repeated exposure
HMIS RATING	
Health Hazard	2
Chronic health hazard	*
Flammability	3
Physical hazard	0
NFPA RATING	
Health Hazard	2
Fire Hazard	3
Reactivity hazard	0

#### DATA SOURCES: <u>REFERENCES</u>

ACGIH. 2013 Guide to Occupational Exposure Values. Cincinnati, OH. Signature Publications, 2013.

Forsberg, K.; Mansdorf, S.Z. Quick Selection Guide to Chemical Protective Clothing. Fifth Edition. Hoboken, NJ. John Wiley & Sons, 2007.

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US EPA. Consolidated List of Chemicals Subject to the Emergency Planning and Community Right-To-Know Act (EPCRA) and Section 112(r) of the Clean Air Act. [Available] Online: <u>http://www.epa.gov/ceppo/pubs/title3.pdf. Retrieved</u> 02/02/2011.

#### ADDITIONAL SDS INFORMATION:

#### KEY / LEGEND

ACGIH - American Conference of Governmental Industrial Hygienists

ADR - Agreement on Dangerous Goods by Road

CAA - Clean Air Act

CAS - Chemical Abstracts Service Registry Number

CDG - Carriage of Dangerous Goods By Road and Rail Manual

CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act

CFR - Code of Federal Regulations

EINECS - European Inventory of Existing Chemical Substances Registry Number

ERG - Emergency Response Guidebook

EPCRA - Emergency Planning and Community Right-to-Know Act

GHS - Globally Harmonized System of Classification and Labeling of Chemicals

IARC - International Agency for Research on Cancer

IATA - International Air Transport Association

ICAO - International Civil Aviation Organization

IMDG - International Maritime Dangerous Goods Code

IMO - International Maritime Organization N/E - Not Established NTP - National Toxicology Program OSHA - Occupational Safety and Health Administration PEL - Permissible Exposure Limit **PPE - Personal Protective Equipment** RCRA - Resource Conversation and Recovery Act RID - Regulations Concerning the International Transport of Dangerous Goods by Rail **RQ** - Reportable Quantities SARA - Superfund Amendments and Reauthorization Act of 1986 SDS - Safety Data Sheet TCC - Tag Closed Cup TDG - Transportation of Dangerous Goods TLV - Threshold Limit Value TSCA - Toxic Substance Control Act UN/NA - United Nations / North American Number UNECE - United Nations Economic Commission for Europe US DOT - United States Department of Transportation US EPA - United States Environmental Protection Agency Vol. - Volume WHMIS - Workplace Hazardous Materials Information System

**GENERAL STATEMENTS:** Other information not included anywhere else in this SDS is included in this section if, in fact, such data exists.

MANUFACTURER DISCLAIMER: This information relates to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is to the best of our knowledge and belief, accurate and reliable as of the date compiled. However, no representation, warranty or guarantee is made as to its accuracy, reliability or completeness. NO WARRANTY OF MERCANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, IS MADE CONCERNING THE INFORMATION HEREIN PROVIDED. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use. We do not accept liability for any loss or damage that may occur from the use of this information nor do we offer warranty against patent infringement.