



Material Safety Data Sheet

Date Originated: 1/15/2015

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NFPA 	HCS Risk Phrases HCS CLASS: Toxic. HCS CLASS: Irritating substance. HCS CLASS: Sensitizing substance. HCS CLASS: Combustible liquid IIIB having a flash point higher than 93.3°C (200°F).	Protective Clothing 
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Section 1. Chemical Product and Company Identification

Product Name

Polyflex 111A PU Primer Catalyst

Synonym

WP111A.0

Manufacturer

SUPPLIER:
Wasser Corporation
4118 B PL NW, Suite B
Auburn, WA 98001, US
Phone# 253-850-2967

Chemical Family

Not applicable.

In case of Emergency

EMERGENCY PHONE NUMBERS:
USA and Canada: 1-800 424-9300
International: 1-703 527-3887.

Section 2. Composition and Information on Ingredients

Name	CAS #	% by Weight	TLV/PEL	LC ₅₀ /LD ₅₀
Isocyanic acid, polymethylene polyphenylene ester	9016-87-9	70-90	TWA: 0.005 CEIL: 0.02 (ppm) from ACGIH (TLV) TWA: 0.051 (mg/m ³) from ACGIH (TLV)	ORAL (LD50): Acute: 10000 mg/kg [Rat]. DERMAL (LD50): Acute: 6000 mg/kg [Rabbit]. VAPOR (LC50): Acute: 103 ppm 4 hour(s) [Rat].
Propylene Carbonate	108-32-7	10-30	Not available.	Not available.
Reaction product of polyol with methylenephenyldiisocyanate	Not disclosed	1-5	Not available	Not available

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Section 3. Hazards Identification

Routes of Entry: Inhalation. Skin contact (absorption). Eye contact. Ingestion.

Potential Acute Health Effects

Eyes: Liquid or spray mist may irritate eyes. Over-exposure may cause severe irritation. Inflammation of the eye is characterized by redness, watering, and itching.

Skin: This product may irritate skin upon contact. Harmful if absorbed through the skin. May cause skin sensitization. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.

Ingestion: Harmful if swallowed. Irritation or chemical burns of the mouth, pharynx, esophagus and stomach can develop following ingestion of this product. Even small amounts of liquid aspirated into the lungs during ingestion or vomiting may cause pulmonary injury and possibly death.

Inhalation: Harmful if inhaled (Irritant, sensitizer). Over-exposure by inhalation of the vapors/spray mist may produce severe irritation of respiratory tract, characterized by coughing, choking, or shortness of breath. May cause sensitization by inhalation. Massive exposure can cause death.

Potential Chronic Health Effects

Eyes: Repeated or prolonged contact with spray mist may produce chronic eye irritation.

Skin: Repeated skin exposure can produce local skin destruction, or dermatitis, possibly sensitization.

Ingestion: May be fatal if swallowed.

Inhalation: Repeated or prolonged inhalation of vapors/spray mist may lead to chronic respiratory irritation. May cause sensitization by inhalation.

Other chronic effects on Humans

Exposure may cause asthma, dermatitis and pulmonary oedema; effects may be delayed. Sensitive individuals may develop eczema and/or asthma on inhalation of this material. However, in light of good industrial hygiene, exposure to any chemical should be kept to a minimum.

Section 4. First Aid Measures

Eye Contact Check for and remove any contact lenses. IMMEDIATELY flush eyes with running water for at least 15 minutes, keeping eyelids open. DO NOT use an eye ointment. Seek medical attention.

Skin Contact Wash gently and thoroughly the contaminated skin with running water and non-abrasive soap. Rinse with plenty of running water (15-30 minutes). If irritation persists, seek medical attention.

Hazardous Skin Contact If the chemical gets onto the clothed portion of the body, remove the contaminated clothes as quickly as possible, protecting your own hands and body. Place the person under shower. Wash gently and thoroughly the contaminated skin with running water and non abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Rinse with plenty of running water (15-30 minutes). Seek medical attention. Wash contaminated clothing before reusing.

Inhalation Allow the person to rest in a well ventilated area. Loosen tight clothing around the person's neck and waist. If symptoms persist, seek medical advice immediately (show the label when possible).

Hazardous Inhalation Evacuate the person to a safe area as soon as possible. Loosen tight clothing around the person's neck and waist. If the person is not breathing, administer mouth-to-mouth resuscitation. Warning: It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation if the material is toxic, infectious or corrosive. Oxygen may be administered if breathing is difficult. Seek medical attention.

Ingestion DO NOT induce vomiting. Have conscious person drink several glasses of water. Seek immediate medical attention.

Hazardous Ingestion DO NOT induce vomiting. Loosen tight clothing such as a collar, tie, belt or waistband. Have conscious person drink several glasses of water. Never give an unconscious person anything to ingest. Even small amounts of liquid aspirated into lungs during ingestion or from vomiting may cause mild to severe pulmonary injury and possibly death. If the person is not breathing, administer mouth-to-mouth resuscitation. WARNING: It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled material is toxic, infectious or corrosive. Avoid mouth-to-mouth contact by using mouth guards or shields. If breathing is difficult, administer oxygen. Seek immediate medical attention.

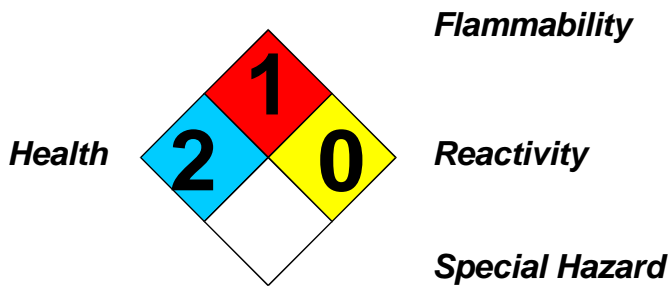
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Section 5. Fire and Explosion Data

Flammability of the Product	May be combustible at high temperature.
Auto-Ignition Temperature	Not available.
Flash Points	CLOSED CUP: Higher than 93.3°C (200°F).
Flammable Limits	Not available.
Products of Combustion	These products are carbon oxides (CO, CO ₂), and other toxic compounds (nitrogen oxides, isocyanate vapors, and traces of hydrogen cyanide).
Fire Hazards in Presence of Various Substances	Combustible in presence of open flames and sparks.
Explosion Hazards in Presence of Various Substances	Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.
Fire Fighting Media and Instructions	Use DRY chemical, CO ₂ , or foam. If water is used, it should be used in flooding quantities. The reaction between water and hot isocyanate may be vigorous. Cool containing vessels with water jet in order to prevent pressure build-up, autoignition or explosion. Firefighters should be equipped with self-contained breathing apparatus to protect against potentially toxic and irritating fumes. During a fire, Isocyanate vapours and other irritating, highly toxic gases may be generated by thermal decomposition or combustion.
Special Remarks on Fire Hazards	When heated to decomposition it emits highly toxic fumes.
Special Remarks on Explosion Hazards	Container explosion may occur under fire conditions or when heated (due to pressure build-up).



Section 6. Accidental Release Measures

Small Spill	Absorb with an inert material and place in an appropriate waste disposal container. Treat with a neutralizing solution (5% ammonia water, or 5-10% sodium carbonate in water). Add about 10 parts of neutralizer per 1 part of isocyanate with mixing. Wear suitable protective clothing.
Large Spill	Poisonous combustible liquid, insoluble or very slightly soluble in water. Ventilate. Eliminate all sources of ignition. Wear suitable protective clothing, gloves and eye/face protection. A self contained breathing apparatus should be used to avoid inhalation of the product. Warn personnel to move away. Stop leak if without risk. DO NOT touch spilled material. Prevent entry into sewers, basements or confined areas; dike if needed. Cover with WET earth, sand or other non-combustible material, or with DRY absorbent wetted with a neutralizing solution (5% ammonia water, or 5-10% sodium carbonate in water). After 15 minutes transfer it to waste container, or put in open drums - fill the drums half way. Do not seal - evolution of CO ₂ can cause pressure build-up. Keep drums (not sealed) outside, or in safe ventilated area for a few days. After clean-up monitor the vapors concentration. Use the neutralizing solution to decontaminate the surface and the tools. The spilled material, clean-up residues, and spent decontamination solution are hazardous wastes. Call for assistance on disposal.

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Section 7. Handling and Storage

Precautions	Manipulate in a well ventilated area. In case of insufficient ventilation, wear suitable respiratory equipment. Do not breathe gas/fumes/vapor/spray. Avoid contact with skin and eyes. Contact lenses should not be worn. Keep away from foodstuff, drinks and tobacco. Eating, drinking and smoking should be prohibited in area where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Ensure that eyewash station and safety shower is proximal to the work-station location. In case of accident or if you feel unwell, seek medical advice immediately (show the label when possible). Individuals with respiratory problems (asthma, chronic bronchitis), or allergic to isocyanates should avoid any contact with this product. ATTENTION: Isocyanate vapors cannot be smelled until concentrations are well above the safe exposure limit! Do not use jacket-type drum heaters, do not heat over 80 C(176 F).
Storage	Keep away from heat. Keep away from sources of ignition. Keep container tightly closed and in a well-ventilated place. Contains moisture sensitive material; store in a dry place. Highly toxic or infectious materials should be stored in a separate locked safety storage cabinet or room. Provide an inert gas pad if stored in bulk. Keep away from incompatibles.

Section 8. Exposure Controls/Personal Protection

Engineering Controls	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash station and safety shower is proximal to the work-station location. Do air monitoring if possible.
Personal Protection	During mixing, handling and application: Splash goggles. Full protective clothing. Gloves (impervious). Suitable respiratory equipment. When air concentrations are not known or above the TLV, an air-supplied respirator is required. Refer to OSHA Respiratory Protection Standard (29 CFR 1910.134). ATTN: Air-purifying (cartridge type) respirators are not approved for protection against isocyanates due to their low warning properties.
Personal Protection in Case of a Large Spill	Splash goggles. Full suit. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product.

Section 9. Physical and Chemical Properties

Physical state and appearance	Liquid.	Odor	Slight.
Molecular Weight	Not applicable.	Taste	Not available.
pH (1% soln/water)	Neutral.	Color	Colorless to light yellow.
Boiling Point	The lowest known value is 200°C (392°F) (Isocyanic acid, polymethylene polyphenylene ester).	Odor Threshold	ATTENTION: ISOCYANATE VAPORS CANNOT BE SMELLED UNTIL CONCENTRATIONS ARE WELL ABOVE THE SAFE EXPOSURE LIMIT!
Melting Point	Not available.	Evaporation rate	Not available.
Critical Temperature	Not available.	Viscosity	Not available.
Specific Gravity	1.22 (Water = 1)	Water/Oil Dist. Coeff.	Not available.
Vapor Pressure	Not available.	Ionicity (in Water)	Not available.
Vapor Density	Not available.	Dispersion Properties	Is not dispersed in water.
Volatility	0% (v/v). 0% (w/w).	Solubility	Insoluble in water.

Section 10. Stability and Reactivity Data

Stability	The product is stable.
Instability Temperature	Not available.
Conditions of Instability	No additional remarks.
Incompatibility with various substances	Incompatible with water, strong oxidizing agents, amines, strong bases, strong acids, alcohols. Absorbs moisture from the air. Reacts slowly with water to liberate CO ₂ gas.
Corrosivity	No specific information is available in our database regarding the corrosivity of this product in presence of various materials.
Special Remarks on Reactivity	No additional remarks.

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Section 11. Toxicological Information

Routes of Entry	Inhalation. Skin contact (absorption). Eye contact. Ingestion.
Toxicity to Animals	See: Section 2
Chronic Effects on Humans	Exposure may cause asthma, dermatitis and pulmonary oedema; effects may be delayed. Sensitive individuals may develop eczema and/or asthma on inhalation of this material. However, in light of good industrial hygiene, exposure to any chemical should be kept to a minimum.
Other Toxic Effects on Humans	See: Section 3
Special Remarks on Toxicity to Animals	No additional remark.
Special Remarks on Chronic Effects on Humans	Isocyanates are not known to cause cancer in humans. Sensitive individuals may develop eczema and/or asthma on inhalation of this material. Exposure may cause asthma, dermatitis and pulmonary oedema; effects may be delayed.
Special Remarks on other Toxic Effects on Humans	Over-exposure can cause lung irritation, chest pain and oedema which may be fatal. Sensitizer - skin and inhalation.

Section 12. Ecological Information

Ecotoxicity	Not available.
BOD5 and COD	Not available.
Products of Biodegradation	Not available.
Toxicity of the Products of Biodegradation	Not available.
Special Remarks on the Products of Biodegradation	No additional remarks.

Section 13. Disposal Considerations

Waste Disposal	In accordance with municipal, state, and federal regulations. Consult your local or regional authorities. Empty decontaminated containers should be crushed to prevent re-use. Empty containers must be handled with care due to product residue. Do not heat or cut empty containers with electric or gas torch.
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Section 14. Transport Information

DOT Classification	Not a DOT controlled material (United States).
DOT Identification number	Not applicable (PIN and PG).
Special Provisions for Transport	Not applicable.
DOT (Pictograms)	



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Section 15. Other Regulatory Information and Pictograms

Other Regulations TSCA (Toxic Substance Control Act): All components of this product are either reported in EPA TSCA Inventory, or exempt. OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

Other Classifications WHMIS (Canada)

DSCL (EEC)

Hazardous Material Information System (U.S.A.)

Health Hazard	(2)
Fire Hazard	(1)
Reactivity	(0)
Personal Protection	(X)

National Fire Protection Association (U.S.A.)

Health



Fire Hazard

Reactivity

Specific hazard

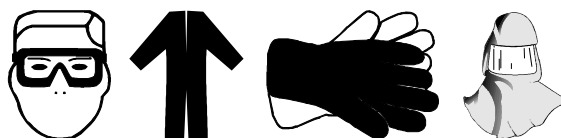
WHMIS (Canada) (Pictograms)

DSCL (Europe) (Pictograms)

TDG (Canada) (Pictograms)

ADR (Europe) (Pictograms)

Protective Clothing (Pictograms)



Section 16. Other Information

References -Manufacturer's Material Safety Data Sheets.
Hazardous Chemicals Desk Reference, R.J. Lewis, Sr. 2nd ed. 1991 Van Nostrand Reinhold.
Hawley, G.G.. The Condensed Chemical Dictionary, 12th ed., New York N.Y., Van Nostrand Reinhold, 1987.

Other Special Considerations Medical supervision of all employees who come in contact with this product is recommended (pre-employment and periodic medical examination). Individuals with respiratory problems (asthma, chronic bronchitis), or allergic to sensitizers, should avoid any contact with this product.

Validated by HS Reg.Depart.Reg.SS on 1/15/2015.

Verified by HS Reg.Depart.Reg.SS.

Printed 1/15/2015.

EMERGENCY PHONE NUMBERS:
USA and Canada: 1-800 424-9300
International: 1-703 527-3887.



Notice to Reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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NFPA	HCS Risk Phrases	Protective Clothing
	HCS CLASS: Slightly irritating substance. HCS CLASS: Combustible liquid III B having a flash point higher than 93.3°C (200°F).	

Section 1. Chemical Product and Company Identification

Product Name

Polyflex 111 PU Primer

Synonym

WP111B.0

Manufacturer

SUPPLIER:
Wasser Corporation
4118 B PL NW, Suite B
Auburn, WA 98001, US
Phone# 253-850-2967

Chemical Family

Not applicable. (Paint)

In case of Emergency

EMERGENCY PHONE NUMBERS:
USA and Canada: 1-800 424-9300
International: 1-703 527-3887

Section 2. Composition and Information on Ingredients

Name	CAS #	% by Weight	TLV/PEL	LC ₅₀ /LD ₅₀
Castor oil	8001-79-4	60-100	Not available.	Not available.

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Section 3. Hazards Identification

Routes of Entry: Ingestion. Skin contact. Eye contact. Inhalation.

Potential Acute Health Effects

Eyes: This product may irritate eyes upon contact.

Skin: This product may irritate skin upon contact.

Ingestion: Slightly dangerous to dangerous in case of ingestion. Harmful if swallowed.

Inhalation: There is no known effect from acute over-exposure to this product.

Potential Chronic Health Effects

Eyes: There is no known effect from chronic exposure to this product.

Skin: There is no known effect from chronic exposure to this product. Repeated skin exposure can produce local skin destruction, or dermatitis.

Ingestion: There is no known effect from chronic exposure to this product. Harmful if swallowed.

Inhalation: There is no known effect from chronic exposure to this product.

Other chronic effects on Humans

There is no known effect from chronic exposure to this product. Repeated skin exposure may produce local skin destruction.

Section 4. First Aid Measures

Eye Contact	Check for and remove any contact lenses. IMMEDIATELY flush eyes with running water for at least 15 minutes, keeping eyelids open. DO NOT use an eye ointment. Seek medical attention.
Skin Contact	Wash gently and thoroughly the contaminated skin with running water and non-abrasive soap. Rinse with plenty of running water.
Hazardous Skin Contact	If the product gets onto the clothed portion of the body, remove the contaminated clothes. Place the person under shower. Wash gently and thoroughly the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Rinse with plenty of running water. If irritation persists, seek medical attention.
Inhalation	Allow the person to rest in a well ventilated area.
Hazardous Inhalation	No additional information.
Ingestion	DO NOT induce vomiting. Have conscious person drink several glasses of water or milk. Seek immediate medical attention.
Hazardous Ingestion	DO NOT induce vomiting. Have conscious person drink several glasses of water or milk. Never give an unconscious person anything to ingest. Lower the head so that the vomit will not reenter the mouth and throat. Even small amounts of liquid aspirated into lungs during ingestion or from vomiting may cause mild to severe pulmonary injury and possibly death. If breathing is difficult, administer oxygen. If the person is not breathing, administer mouth-to-mouth resuscitation. WARNING: It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled material is toxic, infectious or corrosive. Seek immediate medical attention.

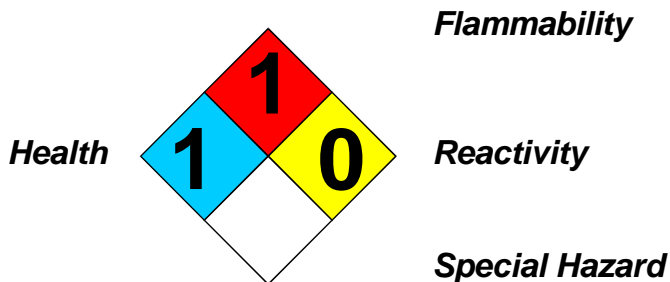
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Section 5. Fire and Explosion Data

Flammability of the Product	Non-flammable.
Auto-Ignition Temperature	The lowest known value is 449°C (840.2°F)
Flash Points	The lowest known value is CLOSED CUP: >93.333°C (201.8°F). (Pensky-Martens.).
Flammable Limits	Not available.
Products of Combustion	These products are carbon oxides (CO, CO ₂), and other unidentified, possibly toxic compounds.
Fire Hazards in Presence of Various Substances	Non flammable in presence of heat, of oxidizing materials, of combustible materials.
Explosion Hazards in Presence of Various Substances	Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.
Fire Fighting Media and Instructions	SMALL FIRE: Use DRY chemicals, CO ₂ , water spray or foam. LARGE FIRE: Use water spray, fog or foam. DO NOT use water jet. Cool containing vessels with water spray or fog in order to prevent pressure build-up, autoignition or explosion. A self contained breathing apparatus should be used to avoid inhalation of the product.
Special Remarks on Fire Hazards	Combustible when exposed to heat or flame.
Special Remarks on Explosion Hazards	Container explosion may occur under fire conditions or when heated (due to pressure build-up).



Section 6. Accidental Release Measures

Small Spill	Absorb with an inert material and place in an appropriate waste disposal container.
Large Spill	Combustible liquid, insoluble or very slightly soluble in water. Absorb with an inert material and put the spilled material in an appropriate waste disposal. Prevent entry into sewers, basements or confined areas; dike if needed. Call for assistance on disposal.

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Section 7. Handling and Storage

Precautions	Keep away from heat. Keep away from sources of ignition. Avoid contact with skin and eyes. Do not breathe gas, fumes, vapor or spray. Do not ingest. Wear suitable protective clothing.
Storage	Keep container dry. Keep container tightly closed. Keep in a cool, well-ventilated place. Combustible materials should be stored away from extreme heat and away from strong oxidizing agents.

Section 8. Exposure Controls/Personal Protection

Engineering Controls	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash station and safety shower is proximal to the work-station location.
Personal Protection	Splash goggles. Gloves (impervious). No special protective clothing is required.
Personal Protection in Case of a Large Spill	Splash goggles. Full suit. Boots. Gloves (impervious).

Section 9. Physical and Chemical Properties

Physical state and appearance	Liquid.	Odor	Bland.
Molecular Weight	Not applicable.	Taste	Not available.
pH (1% soln/water)	Not available.	Color	Clear
Boiling Point	The lowest known value is 313°C (595.4°F)	Odor Threshold	Not available.
Melting Point	Not available.	Evaporation rate	Not available.
Critical Temperature	Not available.	Viscosity	Not available.
Specific Gravity	0.97 (Water = 1)	Water/Oil Dist. Coeff.	Not available.
Vapor Pressure	Not available.	Ionicity (in Water)	Not available.
Vapor Density	Not available.	Dispersion Properties	Is not dispersed in water.
Volatility	0% (v/v). 0% (w/w).	Solubility	Insoluble in water.

Section 10. Stability and Reactivity Data

Stability	The product is stable.
Instability Temperature	Not available.
Conditions of Instability	No additional remarks.
Incompatibility with various substances	Reactive with oxidizing agents.
Corrosivity	Not considered to be corrosive for glass and metals according to our data base.
Special Remarks on Reactivity	No additional remarks.
Special Remarks on Corrosivity	No additional remarks.

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Section 11. Toxicological Information

Routes of Entry	Ingestion. Skin contact. Eye contact. Inhalation.
Toxicity to Animals	See: Section 2
Chronic Effects on Humans	There is no known effect from chronic exposure to this product. Repeated skin exposure may produce local skin destruction.
Other Toxic Effects on Humans	Our database contains no additional remarks on the other toxic effects of this product
Special Remarks on Toxicity to Animals	No additional remarks.
Special Remarks on Chronic Effects on Humans	No additional remarks.
Special Remarks on other Toxic Effects on Humans	No additional remarks.

Section 12. Ecological Information

Ecotoxicity	Not available.
BOD5 and COD	Not available.
Products of Biodegradation	Not available.
Toxicity of the Products of Biodegradation	Not available
Special Remarks on the Products of Biodegradation	No additional remarks.

Section 13. Disposal Considerations

Waste Disposal In accordance with municipal, state, and federal regulations. Consult your local or regional authorities.

Section 14. Transport Information

DOT Classification	Not a DOT controlled material in USA.
DOT Identification number	Not applicable (PIN and PG).
Special Provisions for Transport	Not applicable.
DOT (Pictograms)	



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Section 15. Other Regulatory Information and Pictograms

Other Regulations TSCA (Toxic Substance Control Act): All components of this product are reported on the TSCA Inventory, or exempt.

Other Classifications WHMIS (Canada)

DSCL (EEC)

Hazardous Material Information System (U.S.A.)

Health Hazard	1
Fire Hazard	1
Reactivity	0
Personal Protection	X

National Fire Protection Association (U.S.A.)

Health



Fire Hazard

Reactivity

Specific hazard

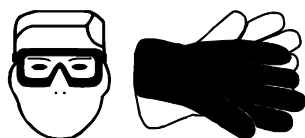
WHMIS (Canada) (Pictograms)

DSCL (Europe) (Pictograms)

TDG (Canada) (Pictograms)

ADR (Europe) (Pictograms)

Protective Clothing (Pictograms)



Section 16. Other Information

References Manufacturer's MSDS, RTESC, NIOSH, CCOHS.
Hazardous Chemicals Desk Reference, R.J. Lewis, Sr. 2nd ed. 1991 Van Nostrand Reinhold.
Hawley, G.G.. The Condensed Chemical Dictionary, 12th ed., New York N.Y., Van Nostrand Reinhold, 1987.

Other Special Considerations No additional remarks.

Validated by HS Reg.Depart.Reg.SS on 1/15/2015.

Verified by HS Reg.Depart.Reg.SS.

Printed 1/15/2015.

EMERGENCY PHONE NUMBERS:
USA and Canada: 1-800 424-9300
International: 1-703 527-3887

Notice to Reader

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