
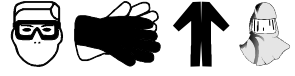


# Material Safety Data Sheet

Date Originated: 01/01/2021

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

**Product Name**

**Polyflex 411A Iso-Catalyst**

**Synonym**

WP411A.0

**Manufacturer**

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

**Chemical Family**

Aromatic isocyanates.

**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 <sub>50</sub> /LD <sub>50</sub>
MDI Prepolymer Diphenylmethane-4,4'-diisocyanate	Proprietary 101-68-8	30-50 5-10	Not available. TWA: 0.05 (mg/m <sup>3</sup> ) from ACGIH	Not available. ORAL (LD50): Acute: 10000 mg/kg [Rat]. DERMAL (LD50): Acute: 10000 mg/kg [Rabbit]. VAPOR (LC50): Acute: 48 ppm 4 hour(s) [Rat].
Diphenylmethane diisocyanate (MDI) mixed monomers	26447-40-5	3-7	TWA: 0.005 CEIL: 0.02 (ppm)	Not available.
Diphenylmethane-2,2'-diisocyanate	26447-40-5	5-11	TWA: 0.02 (mg/m <sup>3</sup> )	Not available.
Di(2-ethylhexyl) phthalate	117-81-7	5-10	TWA: 0.3 (ppm) from ACGIH (TLV) TWA: 5 STEL: 10 (mg/m <sup>3</sup> ) from ACGIH (TLV) TWA: 5 STEL: 10 (mg/m <sup>3</sup> ) from OSHA	ORAL (LD50): Acute: 3100 mg/kg [Rat]. DERMAL (LD50): Acute: 2500 mg/kg [Rabbit].

# Material Safety Data Sheet

Product Name: Polyflex 411A Iso-Catalyst

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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 lungs during ingestion or from vomiting may cause mild to severe 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 overexposure can cause unconsciousness and 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

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

<b>Eye Contact</b>	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.
<b>Skin Contact</b>	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.
<b>Hazardous Skin Contact</b>	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.
<b>Inhalation</b>	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).
<b>Hazardous Inhalation</b>	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.
<b>Ingestion</b>	DO NOT induce vomiting. Have conscious person drink several glasses of water or milk. Seek immediate medical attention.
<b>Hazardous Ingestion</b>	DO NOT induce vomiting. Loosen tight clothing such as a collar, tie, belt or waistband. Have conscious person drink several glasses of water or milk. 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.

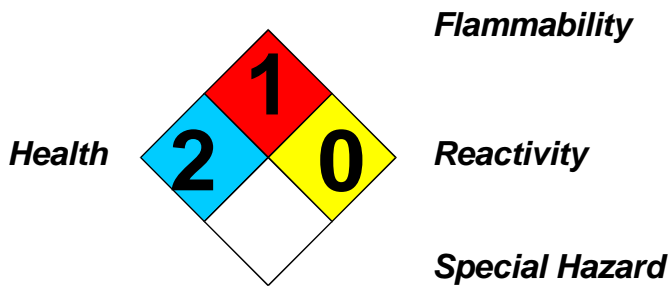
# Material Safety Data Sheet

Product Name: Polyflex 411A Iso-Catalyst

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## Section 5. Fire and Explosion Data

<b>Flammability of the Product</b>	Combustible.
<b>Auto-Ignition Temperature</b>	Not available.
<b>Flash Points</b>	Not available.
<b>Flammable Limits</b>	Not available.
<b>Products of Combustion</b>	These products are carbon oxides (CO, CO <sub>2</sub> ), and other toxic compounds (nitrogen oxides, isocyanate vapors, and traces of hydrogen cyanide).
<b>Fire Hazards in Presence of Various Substances</b>	Combustible in presence of open flames and sparks.
<b>Explosion Hazards in Presence of Various Substances</b>	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.
<b>Fire Fighting Media and Instructions</b>	Use DRY chemical, CO <sub>2</sub> , 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.
<b>Special Remarks on Fire Hazards</b>	When heated to decomposition it emits highly toxic fumes.
<b>Special Remarks on Explosion Hazards</b>	Container explosion may occur under fire conditions or when heated (due to pressure build-up).



## Section 6. Accidental Release Measures

<b>Small Spill</b>	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.
<b>Large Spill</b>	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 <sub>2</sub> 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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Product Name: Polyflex 411A Iso-Catalyst

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## Section 7. Handling and Storage

<b>Precautions</b>	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).
<b>Storage</b>	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

<b>Engineering Controls</b>	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.
<b>Personal Protection</b>	During mixing, handling and application: Splash goggles. Full protective clothing. Gloves (impervious). Wear 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). In presence of air movement, air-purifying (cartridge type) respirators are not the best protection but can be used, if you replaced them frequently. Change cartridges after 8h max or less due to their low warning properties. When in a confined space wear MSHA/NIOSH approved self-contained breathing apparatus or equivalent and full protective gear.
<b>Personal Protection in Case of a Large Spill</b>	Splash goggles. Full suit. Boots. Gloves (impervious). Self-contained breathing apparatus (for above TLV, or unknown vapor concentrations), must be used to avoid inhalation of the product.

## Section 9. Physical and Chemical Properties

<b>Physical state and appearance</b>	Liquid.	<b>Odor</b>	Odorless.
<b>Molecular Weight</b>	Not applicable.	<b>Taste</b>	Not available.
<b>pH (1% soln/water)</b>	Neutral.	<b>Color</b>	Clear
<b>Boiling Point</b>	Not available.	<b>Odor Threshold</b>	ATTENTION: ISOCYANATE VAPORS CANNOT BE SMELLED UNTIL CONCENTRATIONS ARE WELL ABOVE THE SAFE EXPOSURE LIMIT!
<b>Melting Point</b>	Not available.	<b>Evaporation rate</b>	Not available.
<b>Critical Temperature</b>	Not available.	<b>Viscosity</b>	Not available.
<b>Specific Gravity</b>	1.08 (Water = 1)	<b>Water/Oil Dist. Coeff.</b>	Not available.
<b>Vapor Pressure</b>	1 mm of Hg (@ 20°C)	<b>Ionicity (in Water)</b>	Not available.
<b>Vapor Density</b>	Not available.	<b>Dispersion Properties</b>	Is not dispersed in water.
<b>Volatility</b>	0% (v/v). 0% (w/w).	<b>Solubility</b>	Insoluble in water.

## Section 10. Stability and Reactivity Data

<b>Stability</b>	The product is stable.
<b>Instability Temperature</b>	Not available.
<b>Conditions of Instability</b>	No additional remarks.
<b>Incompatibility with various substances</b>	Incompatible with water, strong oxidizing agents, amines, strong bases, strong acids, alcohols. Absorbs moisture from the air. Reacts slowly with water to liberate CO2 gas.
<b>Corrosivity</b>	No specific information is available in our database regarding the corrosivity of this product in presence of various materials.
<b>Special Remarks on Reactivity</b>	No additional remarks.

# Material Safety Data Sheet

Product Name: Polyflex 411A Iso-Catalyst

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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	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	Carcinogenic effects: No substantial evidence. Mutagenic effects: No substantial evidence. The ingredients of this product are not classified as carcinogenic by ACGIH or IARC, not regulated as carcinogens by OSHA, and not listed as carcinogens by NTP.
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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Product Name: Polyflex 411A Iso-Catalyst

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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.

**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 on 01/01/2021.

Printed 01/01/2021.

**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.*

# Material Safety Data Sheet

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<b>NFPA</b> 	<b>HCS Risk Phrases</b> HCS CLASS: Highly toxic. HCS CLASS: Corrosive liquid. HCS CLASS: Sensitizing substance. HCS CLASS: Target organ effects.	<b>Protective Clothing</b> 
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## Section 1. Chemical Product and Company Identification

**Product Name**

**POLYFLEX 411B**

**Synonym**

WP411B.XX

**Manufacturer**

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

**Chemical Family**

Not available (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 <sub>50</sub> /LD <sub>50</sub>
Poly(oxy(methyl-1,2-ethanediyl)), alpha-(2-aminomethylethyl)omega-(2-aminomethylethoxy)	9046-10-0	30-60	Not available.	ORAL (LD50): Acute: 480 mg/kg [Rat]. DERMAL (LD50): Acute: 2090 mg/kg [Rabbit].
Aspartic Ester	136210-30-5	30-60	Not available.	ORAL (LD50): Acute: 2000 mg/kg [Rat].
2,4-Diethyltoluenediamine	2095-02-5	3-7	Not available.	ORAL (LD50): Acute: 504 mg/kg [Rat]. DERMAL (LD50): Acute: 1000 mg/kg [Rabbit].
N,N'-dialkylaminodiphenylmethane	5285-60-9	3-7	Not available.	ORAL (LD50): Acute: 1410 mg/kg [Rat]. DERMAL (LD50): Acute: >3160 mg/kg [Rabbit].
2,6-Diethyltoluenediamine	2095-01-4	1-5	TWA: 0.02 (ppm)	ORAL (LD50): Acute: 504 mg/kg [Rat]. DERMAL (LD50): Acute: 1000 mg/kg [Rabbit].

# Material Safety Data Sheet

Product Name: POLYFLEX 411B

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## Section 3. Hazards Identification

**Routes of Entry:** Eye contact. Ingestion.

### Potential Acute Health Effects

**Eyes:** Causes irritation experienced as pain, seen as extreme redness and swelling of the eye. This product can cause chemical burns.

**Skin:** Corrosive to skin on contact. Skin contact may produce burns, possibly methemoglobinemia (with symptoms of cyanosis).

**Ingestion:** May cause burns to mouth, throat and stomach. Aspiration may occur during swallowing or vomiting, resulting in lung damage.

**Inhalation:** Inhalation of the spray mist or form vapours (especially those generated from heating the product) may produce severe irritation of the nose, throat and respiratory tract.

### Potential Chronic Health Effects

**Eyes:** Not available

**Skin:** Repeated skin exposure can cause persistent irritation or dermatitis.

**Ingestion:** Not available.

**Inhalation:** Repeated inhalation may cause lung damage.

### Other chronic effects on Humans

Sensitive individuals may develop eczema and/or asthma on contact with this material.

## Section 4. First Aid Measures

<b>Eye Contact</b>	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.
<b>Skin Contact</b>	Rinse with plenty of running water (15-30 minutes). Dermal contact with this corrosive liquid causes severe skin irritation. Do not apply greases or ointments. SEEK MEDICAL ATTENTION.
<b>Hazardous Skin Contact</b>	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. If the chemical touches the person's exposed skin, such as the hands, gently and thoroughly wash the contaminated skin with running water. Be particularly careful to clean folds, crevices, creases and groin. Dermal contact with this corrosive liquid causes severe skin irritation. Do not apply greases or ointments. Control shock, if present. SEEK IMMEDIATE MEDICAL ATTENTION.
<b>Inhalation</b>	Allow the victim to rest in a well ventilated area. Seek immediate medical attention.
<b>Hazardous Inhalation</b>	Evacuate the person to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the person is not breathing, perform 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.
<b>Ingestion</b>	DO NOT induce vomiting. Have conscious person drink several glasses of water. Seek immediate medical attention.
<b>Hazardous Ingestion</b>	DO NOT induce vomiting. Have conscious person drink several glasses of water. Loosen tight clothing such as a collar, tie, belt or waistband. Never give an unconscious person anything to ingest. 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 material is toxic, infectious or corrosive. Avoid mouth-to-mouth contact by using mouth guards or shields. Seek immediate medical attention.



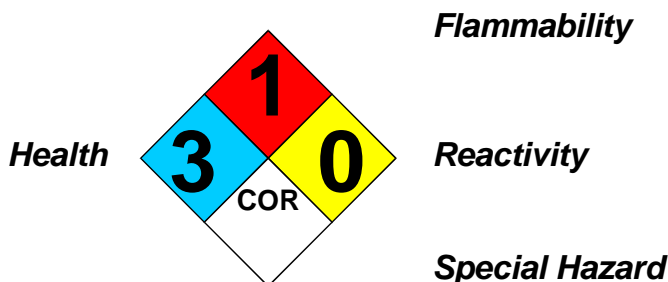
# Material Safety Data Sheet

Product Name: POLYFLEX 411B

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## Section 5. Fire and Explosion Data

<b>Flammability of the Product</b>	Combustible.
<b>Auto-Ignition Temperature</b>	Not available.
<b>Flash Points</b>	Higher than 93.3°C (200°F).
<b>Flammable Limits</b>	Not available.
<b>Products of Combustion</b>	Carbon oxides (CO, CO <sub>2</sub> ), nitrogen oxides (NO, NO <sub>2</sub> ...) and other identified, possible toxic compounds.
<b>Fire Hazards in Presence of Various Substances</b>	Combustible in presence of open flames and sparks.
<b>Explosion Hazards in Presence of Various Substances</b>	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.
<b>Fire Fighting Media and Instructions</b>	SMALL FIRE: Use DRY chemicals, CO <sub>2</sub> , alcohol foam or water spray. LARGE FIRE: Use alcohol foam, water spray or fog. Never direct a water jet in the container in order to prevent any splashing of the product which could cause spreading of the fire. Cool containing vessels with water spray or fog in order to prevent pressure build-up, autoignition or explosion.
<b>Special Remarks on Fire Hazards</b>	Container explosion may occur under fire conditions or when heated.
<b>Special Remarks on Explosion Hazards</b>	No additional remarks.



## Section 6. Accidental Release Measures

<b>Small Spill</b>	Absorb with an inert material and place in an appropriate waste disposal container. Warn personnel to move away. Wear suitable protective clothing and proper respirator.
<b>Large Spill</b>	Combustible liquid. Corrosive liquid. Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. DO NOT get water inside container. DO NOT touch spilled material. Try to work in the in the same direction as the wind is blowing relative to the spilt product. Prevent entry into sewers, basements or confined areas; dike if needed. Eliminate all sources of ignition. Call for assistance on disposal.

# Material Safety Data Sheet

Product Name: POLYFLEX 411B

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## Section 7. Handling and Storage

**Precautions** Keep locked up. Keep container dry. Keep away from heat. Do not breathe gas, fumes, vapor or spray. Never add water to this product. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents.

**Storage** May corrode metallic surfaces. Keep away from heat. Keep away from sources of ignition. Keep container tightly closed. Keep in a cool, well-ventilated place.

## 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 workstation location.

**Personal Protection** Face shield. Full suit. Gloves. Boots. Wear appropriate respirator when ventilation is inadequate. Be sure to use a MSHA/NIOSH approved respirator or equivalent.

**Personal Protection in Case of a Large Spill** Splash goggles. Full suit. Vapor respirator. Boots. Gloves.

## Section 9. Physical and Chemical Properties

<b>Physical state and appearance</b>	Liquid.	<b>Odor</b>	Ammoniacal.
<b>Molecular Weight</b>	Not applicable.	<b>Taste</b>	Not available.
<b>pH (1% soln/water)</b>	Not available.	<b>Color</b>	Clear
<b>Boiling Point</b>	Not available.	<b>Odor Threshold</b>	Not available.
<b>Melting Point</b>	Not available.	<b>Evaporation rate</b>	Not available.
<b>Critical Temperature</b>	Not available.	<b>Viscosity</b>	Not available.
<b>Specific Gravity</b>	1.00-1.05 (Water = 1)	<b>Water/Oil Dist. Coeff.</b>	Not available.
<b>Vapor Pressure</b>	Not available.	<b>Ionicity (in Water)</b>	Not available.
<b>Vapor Density</b>	Not available.	<b>Dispersion Properties</b>	Not available.
<b>Volatility</b>	0% (v/v). 0% (w/w).	<b>Solubility</b>	Not available.

## 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 strong oxidizing agents and acids.

**Corrosivity** Non-corrosive in presence of glass.

**Special Remarks on Reactivity** No additional remarks.

**Special Remarks on Corrosivity** No additional remark.

# Material Safety Data Sheet

Product Name: POLYFLEX 411B

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## Section 11. Toxicological Information

Routes of Entry	Eye contact. Ingestion.
Toxicity to Animals	See: Section II
Chronic Effects on Humans	Sensitive individuals may develop eczema and/or asthma on contact with this material.
Other Toxic Effects on Humans	Very dangerous in case of skin contact (corrosive), of eye contact (corrosive).
Special Remarks on Toxicity to Animals	No additional remark.
Special Remarks on Chronic Effects on Humans	Repeated skin contact may cause persistent irritation or dermatitis. Repeated inhalation may cause lung damage.
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	Recycle to process, if possible. Consult your local or regional authorities.
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## Section 14. Transport Information

DOT Classification	DOT CLASS 8: Corrosive liquid P.G. III.
DOT Identification number	UN3066 Paint
Special Provisions for Transport	No additional remarks.
DOT (Pictograms)	



# Material Safety Data Sheet

Product Name: POLYFLEX 411B

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## Section 15. Other Regulatory Information and Pictograms

**Other Regulations** OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200). TSCA (Toxic Substance Control Act): All components of this product are listed on the TSCA Inventory.

**Other Classifications** WHMIS (Canada)

DSCL (EEC)

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

Health Hazard	3
Fire Hazard	1
Reactivity	0
Personal Protection	

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

Health



Fire Hazard

Reactivity

Specific hazard

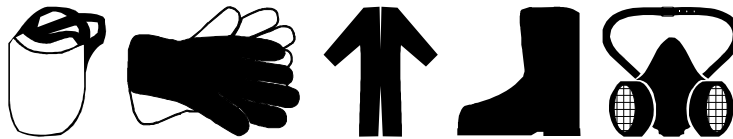
**WHMIS (Canada) (Pictograms)**

**DSCL (Europe) (Pictograms)**

**TDG (Canada) (Pictograms)**

**ADR (Europe) (Pictograms)**

**Protective Clothing (Pictograms)**



## Section 16. Other Information

**References** Manufacturer's MSDS, RTESC, NIOSH, CCOHS.  
J. Lewis, Sr. (1991) HAZARDOUS CHEMICALS DESK REFERENCE. 2nd ED. Van Nostrand Reinhold.

**Other Special Considerations** Individuals with respiratory problems (asthma, chronic bronchitis) should avoid any contact with this product.

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

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