



*Painting the World...
Without costing the Earth*

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MATERIAL SAFETY DATA SHEET

SECTION 1-PRODUCT AND COMPANY IDENTIFICATION

DATE PREPARED: May 18, 2011
SUPERCEDES: March 15, 2011

PRODUCT NAME: AquaSurTech D200

DESCRIPTION: Polyurethane-Acrylic Hybrid Dispersion for Coatings

COMPANY: AquaSurTech OEM.
2148 Trans-Canada Highway
Dorval, Quebec, H9P 2N4

Telephone number for information: 514-684-2628 Fax: 450-684-2620

Emergency Telephone number: Chem-Tel 800-255-3924

SECTION 2 – HAZARDOUS INGREDIENTS

INGREDIENT	CAS #	% (by weight)	OSHA PPM	PEL MG/M3	ACGIH PPM	TWA MG/M3	SARA_ TITLE III	RQ LBS
2-(2-butoxyethoxy)ethanol	112-34-5	1-5%		not listed				
2,4,7,9-Tetramethyldec-5-YNE-4,7-diol	126-86-3	1-5%					NO	
METHYL-2H or METHYL-4 (3:1)								
Mixture of EC No. 220-239-6	55965-84-9	<1%	N/A	N/A	N/A	N/A	NO	
1-ETHYLPYRROLIDIN-2-ONE	2687-91-4	1-5%		not listed		10	NO	N/A
Tetrahydro-1,3,4,6-tetrakis hydroxymethyl)imidazo (4,5-d)	5395-50-6	<1%						

SECTION 3 – HAZARDOUS IDENTIFICATION

EMERGENCY OVERVIEW

Irritant if swallowed. May cause sensitization by skin contact.

POTENTIAL HEALTH EFFECTS

INHALATION: Vapors may irritate throat and respiratory system and cause dullness, headache, and dizziness. Irritating to respiratory system. Remove to fresh air, keep warm and at rest.

SKIN: Irritating to skin, remove contaminated clothing. Wash immediately with soap and water. Do not use solvent or thinners.

EYES: Irritating to eyes, rinse immediately with plenty of water and seek medical advise. Contact lenses should be removed if safe to do so. Eyebaths should be available wherever the product is stored or used.

INGESTION: Danger of serious damage to health by prolonged exposure if swallowed, may impair fertility, may cause harm to the unborn child, may cause heritable genetic damage. Limited evidence of carcinogenic effect. If swallowed drink 1 or 2 glasses of clean water and obtain immediate medical attention. Keep at rest. Do not induce vomiting. If taken into mouth and not swallowed, swill out with clean water.

The engineering controls and personal protection equipment advised in this Safety Data Sheet are to ensure the occupational exposure limits are not exceeded. Should this happen to anybody within the affected area, there could be delayed adverse health effects.

CARCINOGENICITY: NTP? NO IARC MONOGRAPHS? NO OSHA REGULATIED? NO

SECTION 4 – FIRST AID

INHALATION: Remove to fresh air, keep warm and at rest.

SKIN CONTACT: Remove contaminated clothing. Wash immediately with soap and water. Do not use solvent or thinners.

EYE CONTACT: Rinse immediately with plenty of water and seek medical advice. Contact lenses should be removed if safe to do so. Eyebaths should be available wherever the product is stored or used.

INGESTION: If swallowed drink 1 or 2 glasses of water and obtain immediate medical attention. Keep at rest. Do not induce vomiting. If taken into mouth and not swallowed, swill out with clean water.

N.B. Never give anything by mouth to a person who is unconscious or having convulsions. If conditions persist, seek medical advice.

SECTION 5 – FIRE FIGHTING MEASURES

FLASH POINT (METHOD USED): Waterbased,N/A **FLAMMABLE LIMITS:** LEL: N/A UEL: N/A
AUTOIGNITION TEMPERATURE: N/A **NFPA CLASS:** N/A
GENERAL HAZARDS: Product is not classified as flammable.
EXTINGUISHER MEDIA: Apply carbon dioxide, dry powder or foam. Do not use water.
FIRE FIGHTING PROCEDURES: A solid stream of water directed into hot, burning liquid can cause splattering. Air fed breathing apparatus and skin/eye protection is advised.
UNUSUAL FIRE AND EXPLOSION HAZARDS:
HAZARDOUS COMBUSTION PRODUCTS: After evaporation could emit carbon (sooty)deposits and carbon monoxide and dioxide and nitrogen oxides. Incomplete combustion may result in the formation of volatile organic compounds, amine derivatives (including nitrous acids) and carbon monoxide. Cool closed containers exposed to fire with water spray. Do not allow run off to enter drains or water courses.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:
PERSONAL PRECAUTIONS: Clear area of all unnecessary personnel. Wear protective equipment as specified in section 8. Avoid contact with eyes. Avoid contact with liquid or vapors. Do not work alone in confined spaces.

ENVIRONMENTAL PRECAUTIONS: Avoid material entering drainage system. Avoid discharge to sewers or natural waters.
CLEANING UP METHODS: Contain large spills. Collect in marked containers for disposal. Absorb in sand or earth. Clean, preferably with a detergent; avoid the use of solvents.

SECTION 7 - HANDLING AND STORAGE

HANDLING: Do not breath fumes/vapor/spray. In case of insufficient ventilation, wear suitable respiratory equipment. When spraying use mask and gloves as advised in section 8. Person with history of skin sensitization problems should not be employed in a situation where skin contact with this product could occur, nor should those with asthma or similar disorders be exposed to the vapors or spray mist. Good standards of industrial and personal hygiene should be observed.

STORAGE: Containers should always be kept upright and tightly sealed to avoid leaking. Open only when ready for use and reseal part used containers after use. Store in well labelled container, preferably the original container. Avoid exposure to air, water, sunlight or excessive heat.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS:
Provide ventilation or other engineering controls to keep airborne concentrations of vapour or mists below applicable workplace exposure limits indicated below. All electrical equipment should comply with the National Electric Code. An emergency eye wash station and equipment shower should be located near the work station.

PERSONAL PROTECTION:
RESPIRATORY: Normal conditions of ventilation are usually adequate. Wear a fine particle mask or use local exhaust ventilation as necessary when using in confined areas with inadequate ventilation or whenever there is any risk of the exposure limits being exceeded. This applies not only to the user, but to all people who cannot be vacated from the work area.

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HAND: Use protective gloves. Suitable types are pvc, neoprene or nitrile. Other types may be available and used, avoid those which soak up the product and lead to skin contact. If in doubt seek advice from reputable manufacturer. Barrier creams may help to protect exposed areas are not substitutes for full physical protection. They should not be applied once exposure has occurred. Gloves may degrade or be damaged according to different circumstances of use. Always ensure the gloves you are using are in good condition.

EYE: Eye protection designed to protect against liquid splashes should be worn, e.g. Complete enclosure of the eyes to conform to 29cFR1910.133 or European Standard EN 166 Chemical Grade.

SKIN: Cotton or cotton synthetic overalls or coveralls are normally suitable. Grossly contaminated clothing should be removed and the skin washed with soap and water or a proprietary skin cleaner.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Safety eyewash station nearby.

WORK / HYGIENIC PRACTICES: Practice safe workplace habits. Minimize body contact with this product, as well as all chemicals in general.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

VAPOR PRESSURE (mm Hg): N/A	VAPOR DENSITY (AIR=1) HEAVIER THAN AIR
SPECIFIC GRAVITY (WATER=1) 1.03-1.05 g/cm ³	EVAPORATION RATE (WATER=1) N/A
SOLUBILITY IN WATER: SOLUBLE	FREEZING POINT: 32 DEG F
pH " 8.0 – 9.0	APPEARANCE AND ODOR: MILKY SLIGHT AMINE ODOR
BOILING POINT: 212 DEG F @ 760 mmHg	PHYSICAL STATE: LIQUID
VISCOSITY: 500-700 cPs @ 68 DEG F	VOC CONTENT: 31 g/l

SECTION 10 – STABILITY AND REACTIVITY

STABILITY: STABLE AT ROOM TEMPERATURE

CONDITIONS TO AVOID: Avoid storing at temperatures in excess of 105 deg F
Avoid frost.

INCOMPATIBILITY (MATERIALS TO AVOID): Acids-organic, halogenated. Strong oxidising substances. Organic peroxides/hydroperoxides. Inorganic peroxides.

HAZARDOUS DECOMPOSITION OR BY PRODUCTS: Carbon (sooty deposits plus carbon monoxide and dioxide and nitrogen oxides. Incomplete combustion may result in the formation of volatile organic compounds, amine derivatives (including nitrous acids) and carbon monoxide.

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID: Avoid sources of heat, direct sunlight.

SECTION 11- TOXICOLOGICAL INFORMATION

Hazardous Ingredients	CAS #	% By Weight	LD50 of ingredient (Specify Species and Route)	LC50 of ingredient (Specify Species and Route)
METHYL-2H or METHYL-4(3:1) Mixture of EC no. 220-239-6	55965-84-9	<1 %		
2,4,7,9-TETRAMETHYLDEC-5-YNE- 4,7-DIOL	126-86-3	1-5%		
1-ETHYLPYRROLIDIN-2-ONE	2687-91-4	1-5 %	Oral rat 3914 mg/kg	
2-(2-BUTOXYETHOXY)ETHANOL	112-34-5	1-5 %	Oral rat 5660 mg/kg	N/A
Tetrahydro-1,3,4,6-tetrakis (hydroxymethyl)imidazo (4,5-d)	5395-50-6	<1%		

SECTION 12 – ECOLOGICAL INFORMATION

Nonegative effects on the environment are known. This product is NOT readily biodegradable.

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SECTION 13 – DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHODS: Dispose if in accordance with Local, State, and Federal Regulations. Refer to 40 CFR Parts 260-299 for complete waste disposal regulations. Consult your Local, State or Federal Environmental protection Agency before disposing of any chemicals. Do not flush to sanitary sewer or waterway. It is recommended that any surplus products be disposed of by incineration. Waste is considered Hazardous Waste.

SECTION 14 – TRANSPORT INFORMATION

PROPER SHIPPING NAME	Non Hazardous for shipment		
DOT HAZARD CLASS/ Packing Group	n/a	IATA HAZARD CLASS/ Packing Group	n/a
REFERENCE	n/a	IMDG HAZARD CLASS	n/a
UN / NA IDENTIFICATION NUMBER	n/a	RID/ADR Dangerous Good Code	n/a
LABEL	n/a	UN TDG CALSS/ Pack Group	n/a
HAZARD SYMBOLS	n/a		

NOTE: Transportation information provided is for reference only. Client is urged to consult 49 CFR Parts 100-177, IMDG, IATA, EC, United Nations TDG, AND WHMIS (Canada) TDG information manuals for detailed regulations and exceptions covering specific container sizes, packing materials and methods of shipping.

SECTION 15 – REGULATORY INFORMATION

TSCA (Toxic Substance Control Act)
 All components are in the TSCA inventory.

SARA TITLE III (Superfund Amendments and Reauthorization Act)
 311/312 Hazard Categories
 IRRITANT

313 Reportable Ingredients

CERCLA (Comprehensive Response Compensation and Liability Act)

CPR (Canadian Controlled Products Regulations)

IDL (Canadian Ingredient Disclosure List)
 DSL / NDSL (Canadian Domestic Substance List / Non-Domestic Substance List)
 DSL: all components are included in the inventory.
 EINEC (European Inventory of Existing Commercial Chemical Substances)
 EC Risk Phrases EC Safety Phrases
 S25,26,39,60

SECTION 16 – OTHER INFORMATION

Do not use this product unless trained to do so.

HMIS HAZARD RATING	HEALTH	1	0 = INSIGNIFICANT
	FLAMMABILITY	0	1 = SLIGHT
	REACTIVITY	0	2 = MODERATE
	PERSONAL PROTECTIVE EQUIPMENT	B	3 = HIGH
			4= EXTREME

REVISION SUMMARY: U.S. FORMAT
 MSDS PREPARED BY: RRV 05/12/2011

The information accumulated here in is believed to be accurate but not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of need that information is current, applicable and suited to the circumstances of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the materials if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Any questions regarding this product should be directed to the manufacturer / distributor of the product as described in Section 1.