



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

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## MATERIAL SAFETY DATA SHEET

### SECTION 1-PRODUCT AND COMPANY IDENTIFICATION

DATE PREPARED: November 30, 2010

REPLACES: September 23, 2009

PRODUCT NAME: NUGRAIN

DESCRIPTION: Polyurethane-Acrylic Hybrid Dispersion

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

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Health - Safety Emergency: Chem-Tel: 800-255-3924 Contract # MIS0004746

### 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%	N/A	N/A	N/A	N/A	NO	N/A
DIURON (ISO)	330-54-1	<1%		N/A		10	YES	100 LBS
N-METHYL-PYRROLIDONE	872-50-4	1-5%	N/A	N/A	N/A	N/A	NO	

(a,c) See Section 15

(b) Indicates that the Resource Conservation and Recovery Act (RCRA) has determined the waste for this chemical is listed as hazardous and must be handled according to regulation 40 CFR 260-281.

### SECTION 3 - HAZARDOUS IDENTIFICATION

#### EMERGENCY OVERVIEW

Not regarded as a significant health or environmental hazard. Contains triethylamine salt.

#### POTENTIAL HEALTH EFFECTS

INHALATION: Vapors may irritate throat and respiratory system and cause dullness, headache, and dizziness.

SKIN: Prolonged contact may cause redness and irritation.

INGESTION: May cause discomfort if swallowed. Nausea and vomiting may also occur.

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 REGULATED? NO

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#### **SECTION 4 – FIRST AID**

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- INHALATION:** Remove victim immediately from source of exposure. General first aid, rest, warmth and fresh air. Get medical attention if any discomfort continues.
- SKIN CONTACT:** Remove contaminated clothing. Wash skin with soap and water.
- EYE CONTACT:** Make sure to remove any contact lenses from the eye before rinsing. Promptly wash eyes with plenty of water while lifting the eyelids. Continue to rinse for at least 15 minutes. Obtain medical attention and bring these instructions.
- INGESTION:** Immediately rinse mouth and drink plenty of water. Keep effected person warm and at rest. Get prompt medical attention. Do not induce vomiting. NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS.
- N.B.** If symptoms persist, seek medical attention.

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#### **SECTION 5 – FIRE FIGHTING MEASURES**

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**FLASH POINT (METHOD USED):** Will not flash      **FLAMMABLE LIMITS:** LEL: N/A      UEL: N/A  
**AUTOIGNITION TEMPERATURE:** N/A      **NFPA CLASS:** N/A

**GENERAL HAZARDS:**  
By toxic gases may be formed including (Cox and N0x)

**EXTINGUISHER MEDIA:**  
Extinguish with foam, carbon dioxide, dry powder or water fog.

**FIRE FIGHTING PROCEDURES:**  
Containers close to fire should be removed or cooled with water to avoid pressurization. Keep run-off water out of sewers and other water sources. Dike for water control.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** SCBA and full protective gear must be worn in case of fire.

**HAZARDOUS COMBUSTION PRODUCTS:** By fire, toxic gasses may be formed (Cox, N0x).

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#### **SECTION 6 – ACCIDENTAL RELEASE MEASURES**

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**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:** Wear protective clothing as described in Section 8. Avoid contact with skin and eyes. Do not allow to enter drains, sewers or waterways. Contain spillages with sand, earth or any suitable absorbant material. Stop leaks if possible without risk. Absorb in vermiculite, dry sand or earth and place into containers. Flush with plenty of water to clean spillage area. Do not contaminate water sources or sewer.

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#### **SECTION 7 - HANDLING AND STORAGE**

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**HANDLING:** Take precautionary measures against static discharges. Keep away from sources of ignition- No smoking. Do not breath fumes/vapor/spray. Wear suitable respiratory equipment. Provide adequate ventilation, including forced ventilation in confined spaces such as tanks etc. Where reasonably practical this should be achieved by the use of local exhaust ventilation and good general extraction. Persons 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. Avoid contact with food. Do not eat in wet paint area. Good standards of industrial and personal hygiene should be observed.

**STORAGE:** Store in original packaging in a location free from any sources of ignition. Keep away from open flames, cutting and welding torches, high surface temperature electric heaters and other forms of direct radiant heat.

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### **SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION**

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**ENGINEERING CONTROLS:**

The use of local exhaust ventilation is recommended to control emissions near the source. Provide mechanical ventilation of confined spaces. See section 2 for Component Exposure Guidelines.

**PERSONAL PROTECTION:**

**RESPIRATORY:** If the measures detailed in Section 7 (HANDLING) are not sufficient to maintain concentrations of particulate and/or solvent vapors below the relevant occupational exposure limits, suitable respiratory equipment as shown below should be worn. Exterior use: Particle mask, if spraying, to conform to 29CFR1910.134 or European Standard EN 149. Interior use: Organic vapor respirator to conform to 29CFR1910.134 or European Standard EN 405. Inside tanks or similar confined spaces: Forced air fed respirator to conform to 29cFR1910.134 or European Standard TM 14/7.25 Class 2. This applies not only to the user, but to all people who cannot be vacated from the work area.

**HAND:** Use glove made of neoprene, nitrile, polyethylene or pvc.

**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.

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### **SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES**

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VAPOR PRESSURE (mm Hg): N/A

SPECIFIC GRAVITY (WATER=1) 1.03-1.05 g/cm<sup>3</sup>

SOLUBILITY IN WATER: SOLUBLE

pH “ 8.0 – 9.0

BOILING POINT: 212 DEG F @ 760 mmHg

VISCOSITY: 1200-1400 CPS

VAPOR DENSITY (AIR=1) HEAVIER THAN AIR

EVAPORATION RATE (WATER=1) N/A

FREEZING POINT: 32 DEG F

APPEARANCE AND ODOR: MILKY SLIGHT AMINE ODOR

PHYSICAL STATE: LIQUID

VOLATILE ORGANIC COMPOUNDS (VOC): 90 g/liter

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### **SECTION 10 – STABILITY AND REACTIVITY**

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**STABILITY:** STABLE

**CONDITIONS TO AVOID:** Avoid sources of ignition.

**INCOMPATIBILITY (MATERIALS TO AVOID):**

Avoid strong oxidizing substances, strong alkalis and strong acids.

**HAZARDOUS DECOMPOSITION OR BY PRODUCTS:**

During fire, toxic gasses (Cox,NOx) will be formed.

**HAZARDOUS POLYMERIZATION:**

**CONDITIONS TO AVOID:**

Will not occur

Avoid sources of heat, direct sunlight , avoid frost.

**SECTION 11- TOXICOLOGICAL INFORMATION**

Hazardous Ingredients	CAS #	% By Weight	LD50 of ingredient (Specify Species and Route)	LC50 of ingredient (Specify Species and Route)
2(2-BUTOXYETHOXY)ETHANOL	112-34-5	1-5 %	ORAL RAT 5660 mg/kg	N/A
DIURON (ISO)	330-54-1	<1 %	N/A	Mallard ducks, 5000 ppm
N-METHYL-PYRROLIDONE	872-50-4	1-5 %	Oral rat 3914 mg/kg	N/A

**SECTION 12 – ECOLOGICAL INFORMATION**

The product components are not classified as environmentally hazardous, however this does not exclude the possibility that large or frequent spills can have harmful or damaging effects on the environment.

**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.

**SECTION 14 – TRANSPORT INFORMATION**

PROPER SHIPPING NAME	Not regulated		
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  
Harmful, irritant

313 Reportable Ingredients  
(a) A "YES" in the SARA TITLE III column in Section 2 indicates a toxic chemical subject to annual reporting

requirements for the releases of Section 313 of the Emergency Planning and Community Right -to-know- Act of 1986 and of 40 CFR 372.

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

**SECTION 16 – OTHER INFORMATION**

Do not use this product unless trained to do so.

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

REVISION SUMMARY: U.S. VERSION

MSDS PREPARED BY: RRV 11/30/2010

*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.*