



MATERIAL SAFETY DATA SHEET

SECTION 1 MATERIAL IDENTIFICATION

PRODUCT NAME: **LIQUID STARCH**

PRODUCT USE: TEXTILE INDUSTRY

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SECTION 2 HAZARDOUS INGREDIENTS OF MATERIAL

<u>CHEMICAL IDENTITY</u>	<u>CAS, UN, NA, NO</u>	<u>%</u>
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NO HAZARDOUS INGREDIENTS

SECTION 3 PHYSICAL DATA FOR MATERIAL

PHYSICAL STATE & APPEARANCE	LIQUID
ODOUR/TASTE/COLOUR:	NOT AVAILABLE
MOLECULAR WEIGHT	NOT AVAILABLE
ODOUR THRESHOLD (PPM)	NOT AVAILABLE
SPECIFIC GRAVITY	1.05 – 1.15
VAPOUR PRESSURE (MM)	NOT AVAILABLE
VAPOUR DENSITY (AIR=1)	NOT AVAILABLE
BOILING POINT (DEG. C)	100 DEG. C.
CRITICAL TEMPERATURE	NOT AVAILABLE
WATER/OIL DIST. COEFF.	NOT AVAILABLE
IONICITY (IN WATER)	NOT APPLICABLE
DISPERSION PROPERTIES	NOT AVAILABLE
MELTING POINT (DEG. C)	NOT AVAILABLE
SOLUBILITY IN WATER (20 DEG. C)	SOLUBLE
% VOLATILE (BY VOL.)	64 %
PH (1% SOLN/WATER)	6.5 – 8.5

SECTION 4 FIRE AND EXPLOSION HAZARD

FLAMMABILITY	NON-FLAMMABLE
MEANS OF EXTINCTION SMALL FIRE:	DRY CHEMICALS, CO ₂ , WATER SPRAY OR FOAM
MEANS OF EXTINCTION LARGE FIRE:	WATER SPRAY, FOG OR FOAM.DO NOT USE WATER JET.
SPECIAL PROCEDURES:	NO ADDITIONAL REMARK
FLASHPOINT (DEG. C) AND METHOD:	NOT AVAILABLE
UPPER EXPLOSION LIMIT (% BY VOL.):	N.A.
LOWER EXPLOSION LIMIT (% BY VOL.):	N.A.
AUTO-IGNITION TEMP. (DEG. C):	NOT AVAILABLE.
HAZARDOUS COMBUSTION PRODUCTS:	THESE PRODUCTS ARE CARBON OXIDES (CO,CO ₂)

SECTION 5 REACTIVITY DATA

STABILITY : STABLE
INSTABILITY TEMPERATURE: NOT AVAILABLE
CONDITIONS OF INSTABILITY: NO ADDITIONAL REMARK
INCOMPATIBILITY: STRONG OXIDIZING AGENTS
CORROSIVITY: NO CONSIDERED CORROSIVE FOR METALS AND GLASS ACCORDING TO OUR DATA BASE.
SPECIAL REMARKS ON REACTIVITY: OUR DATA BASE CONTAINS NO PERTINENT REMARK ON THE REACTIVITY OF THIS PRODUCT.

SECTION 6 TOXICOLOGICAL PROPERTIES

ROUTE OF ENTRY SKIN CONTACT YES
EYE CONTACT YES
INGESTION YES

TOXICITY TO ANIMALS: NOT AVAILABLE ACCORDING TO OUR DATA BASE.
EFFECTS OF CHRONIC EXPOSURE THERE IS NO KNOWN EFFECT FROM CHRONIC EXPOSURE TO THIS PRODUCT. REPEATED OR PROLONGED EXPOSURE IS NOT KNOWN TO AGGRAVATE MEDICAL CONDITION.

OTHER TOXIC EFFECTS ON HUMANS: NOT CONSIDERED AN IRRITANT
SPECIAL REMARKS ON TOXICITY TO ANIMALS: OUR DATA BASE CONTAINS NO PERTINENT REMARK ON THE TOXICITY OF THIS COMPONENT ON ANIMALS.

SPECIAL REMARKS ON CHRONIC EFFECTS ON HUMANS: OUR DATA BASE CONTAINS NO PERTINENT REMARK ON THE OTHER COMPONENTS TOXICITY ON HUMANS.

SPECIAL REMARKS ON OTHER TOXIC EFFECTS ON HUMANS: OUR DATA BASE CONTAINS NO PERTINENT REMARK ON THE OTHER TOXIC EFFECTS OF THIS COMPONENT ON HUMANS.

POTENTIAL CHRONIC HEALTH EFFECTS: THERE IS NO KNOWN EFFECT FROM CHRONIC EXPOSURE TO THIS PRODUCT. REPEATED OR PROLONGED EXPOSURE IS NOT KNOWN TO AGGRAVATE MEDICAL CONDITION.

POTENTIAL ACUTE HEALTH EFFECTS: NOT CONSIDERED AN IRRITANT.

SECTION 7 PREVENTIVE MEASURES

PERSONAL PROTECTIVE EQUIPMENT: SPLASH GOGGLES, LAB COAT, GLOVES.
PERSONAL PROTECTION IN CASE OF LARGE SPILL: SPLASH GOGGLES. FULL SUIT. BOOTS. GLOVES. IF BREATHING IS DIFFICULT, A SELF CONTAINED BREATHING APPARATUS SHOULD BE USED TO AVOID INHALATION OF THE PRODUCT.

ENGINEERING CONTROLS: NO SPECIAL VENTILATION REQUIREMENTS.
LEAK AND SPILL PROCEDURE SMALL SPILL: DILUTE WITH WATER AND MOP UP, OR ABSORB WITH AN INERT DRY MATERIAL AND PLACE IN AN APPROPRIATE WASTE DISPOSAL CONTAINER. FINISH CLEANING THE SPILL AREA WITH RUNNING WATER
LARGE SPILL: NO SPECIFIC DATA FOR SPILL AND LEAK ACCORDING TO OUR DATA BASE. ABSORB WITH AN INERT MATERIAL AND PUT THE SPILLED MATERIAL IN AN APPROPRIATE WASTE DISPOSAL. FINISH CLEANING BY SPREADING WATER ON THE CONTAMINATED SURFACE AND ALLOW TO EVACUATE THROUGH THE SANITARY SYSTEM.

EXPOSURE LIMITS: NO AVAILABLE.
WASTE DISPOSAL REVIEW FEDERAL, PROVINCIAL AND LOCAL GOVERNMENT REQUIREMENTS PRIOR TO DISPOSAL.

PRECAUTIONS: KEEP CONTAINER TIGHTLY CLOSED AND DRY. AVOID CONTACT

WITH SKIN.

STORAGE REQUIREMENTS NO SPECIFIC STORAGE IS REQUIRED. USE SHELVES OR CABINETS STURDY ENOUGH TO BEAR THE WEIGHT OF THE CHEMICALS. BE SURE THAT IT IS NOT NECESSARY TO STRAIN TO REACH MATERIALS, AND THAT SHELVES ARE NOT OVERLOADED.

ECOTOXICITY: NOT AVAILABLE

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PRODUCTS OF BIODEGRADATION: THESE PRODUCTS ARE CARBON OXIDES (CO, CO2) AND WATER, NITROGEN OXIDES (NO, NO2).

TOXICITY OF THE PRODUCTS OF BIODEGRADATION: THE PRODUCTS OF BIODEGRADATION ARE NON-TOXIC.

SPECIAL REMARKS ON THE PRODUCTS OF BIODEGRADATION: OUR DATA BASE CONTAINS NO PERTINENT REMARK ON THE TOXICITY OF THE DEGRADED PRODUCTS FOR THIS COMPONENT.

SECTION 8 FIRST AID MEASURES

SKIN CONTACT: WASH GENTLY AND THOROUGHLY THE CONTAMINATED SKIN WITH RUNNING WATER AND NON-ABRASIVE SOAP.

EYE CONTACT: CHECK FOR AND REMOVE ANY CONTACT LENSES. IMMEDIATELY FLUSH EYES WITH RUNNING WATER FOR AT LEAST 15 MINUTES, KEEPING EYELIDS OPEN. COLD WATER MAY BE USED. DO NOT USE AN EYE OINTMENT. SEEK MEDICAL ATTENTION.

HAZARDOUS SKIN CONTACT: NO ADDITIONAL INFORMATION.

INHALATION: ALLOW THE VICTIM TO REST IN A WELL VENTILATED AREA.

HAZARDOUS INHALATION: NO ADDITIONAL INFORMATION IN CASE OF HAZARDOUS INHALATION.

INGESTION: REMOVE DENTURES IF ANY. HAVE CONSCIOUS PERSON DRINK SEVERAL GLASSES OF WATER OR MILK. DO NOT INDUCE VOMITING BY STICKING FINGER IN THROAT. LOWER THE HEAD SO THAT THE VOMIT WILL NOT RE-ENTER THE MOUTH AND THROAT. NEVER GIVE AN UNCONSCIOUS PERSON ANYTHING TO INGEST. SEEK MEDICAL ATTENTION.

HAZARDOUS INGESTION: NO ADDITIONAL INFORMATION IN CASE OF LARGE INGESTION.

SECTION 8 TRANSPORT INFORMATION

TDG CLASSIFICATION: NOT A TDG CONTROLLED MATERIAL.

PIN: PIN: NOT APPLICABLE

SPECIAL PROVISIONS FOR TRANSPORT: NO SPECIAL PROVISION IS AVAILABLE IN OUR DATA BASE FOR THE TRANSPORTATION OF THIS PRODUCT.

PREPARED BY: ECO-CHOICE INDUSTRIES LAB GROUP

DATE: JANUARY 2014

NOTICE: INFORMATION CONTAINED IN THIS MSDS IS DRAWN FROM RELIABLE SOURCES. WE DO NOT ASSUME ANY LIABILITY IN CONNECTION WITH ITS INADEQUATE USE.