

PRODUCT: PASSIVATING SOLUTION

SECTION 01: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURER: T. DONOVAN & SON (1997) LTD.
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PRODUCT NAME: Passivating Solution.

MATERIAL USE: Passivating Treatment.

EMERGENCY PHONE NUMBER: (613)-996-6666

SECTION 02: HAZARDS IDENTIFICATION

SIGNAL WORD: WARNING.

HAZARD CLASSIFICATION: Skin Corrosion/Irritation - Category 2.
Serious Eye Damage/Eye Irritation - Category 2A.

HAZARD STATEMENT: **H315:** Causes skin irritation.
H319: Causes serious eye irritation.

PRECAUTIONARY STATEMENT: **P264:** Wash exposed skin thoroughly after handling.
P280: Wear protective gloves, eye protection.
P302+P352: IF ON SKIN: Wash with plenty of soap and water.
P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332+P313: If skin irritation occurs: Get medical advice/attention.
P337+P313: If eye irritation persists: Get medical advice/attention.
P362: Take off contaminated clothing and wash before reuse.

OTHER HAZARDS: None under normal conditions.

SECTION 03: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT(S)	CAS #	WT. %
Sodium Carbonate, Anhydrous	497-19-8	10
Water	7732-18-5	90

Definitions:

CAS - Chemical Abstract Service registry number.

WT. % - Percent Weight.

SECTION 04: FIRST AID MEASURES

GENERAL ADVICE: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

IF INHALED: Allow victim to breathe fresh air. Allow the victim to rest.

IN CASE OF SKIN CONTACT: Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.

IN CASE OF EYE CONTACT: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

THE MOST IMPORTANT SYMPTOMS AND EFFECTS, WHETHER ACUTE OR DELAYED: Symptoms/effects after skin contact: Causes skin irritation.
Symptoms/effects after eye contact: Causes serious eye irritation.

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SECTION 05: FIRE FIGHTING MEASURES

FLAMMABILITY:	Not Flammable.
SUITABLE EXTINGUISHING MEDIA:	Suitable extinguishing media: Foam, Dry powder, Carbon dioxide, Water spray, and Sand. Unsuitable extinguishing media: Do not use a heavy water stream.
SPECIFIC HAZARDS ARISING FROM THE CHEMICAL:	No additional information available.
SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS:	Firefighting instructions: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment. Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 06: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:	For Non-Emergency Personnel: Protective equipment: Safety glasses and gloves. Emergency procedures: Evacuate unnecessary personnel. For Emergency Responders: Protective equipment: Equip cleanup crew with proper protection. Emergency procedures: Ventilate area.
ENVIRONMENTAL PRECAUTIONS:	Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.
METHODS AND MATERIALS FOR CONTAINMENT AND CLEAN UP:	Methods for cleaning up: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.
REFERENCE TO OTHER SECTIONS:	See Section 8 - Exposure controls and personal protection.

SECTION 07: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING:	Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor.
HYGIENE MEASURES:	Wash exposed skin thoroughly after handling.
CONDITIONS FOR SAFE STORAGE:	Storage conditions: Keep container closed when not in use. Incompatible products: Strong oxidizers and strong acids. Incompatible materials: Sources of ignition, and direct sunlight.

SECTION 08: EXPOSURE CONTROLS/PERSONAL PROTECTION

INGREDIENT(S)	ACGIH TLV		OSHA PEL		NIOSH REL
	TWA	STEL	TWA	STEL	
Sodium Carbonate, Anhydrous	-	-	-	-	-
Water	-	-	-	-	-

Definitions:

ACGIH - American Conference of Governmental Industrial Hygienists.
NIOSH - National Institute for Occupational Safety and Health.
OSHA - Occupational Safety and Health Administration.
PEL - Permissible Exposure Limit.

RELs - Recommended Exposure Limits.
STEL - Short-term Exposure Limit.
TLV - Threshold Limit Value.
TWA - Time Weighted Average.

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SECTION 08: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS:	Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure.
HAND PROTECTION:	Wear protective gloves.
EYE/FACE PROTECTION:	Chemical goggles or safety glasses.
SKIN AND BODY PROTECTION:	Wear suitable protective clothing.
RESPIRATORY PROTECTION:	Respiratory protection not required in normal conditions.
OTHER/TYPE:	Do not eat, drink or smoke during use.

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE:	Colourless Liquid.
ODOUR:	None.
ODOUR THRESHOLD:	No Data Available.
pH:	No Data Available.
MELTING POINT/FREEZING POINT:	No Data Available.
BOILING POINT:	No Data Available.
FLASH POINT, METHOD:	No Data Available.
EVAPORATION RATE:	No Data Available.
FLAMMABILITY (SOLIDS AND GASES):	Not Flammable.
UPPER FLAMMABLE LIMIT (% BY VOL):	Not Applicable.
LOWER FLAMMABLE LIMIT (% BY VOL):	Not Applicable.
VAPOUR PRESSURE:	No Data Available.
VAPOUR DENSITY (AIR=1):	No Data Available.
SPECIFIC GRAVITY (WATER=1):	1 g/mL
SOLUBILITY IN WATER (% W/W):	Soluble in Water.
AUTO IGNITION TEMPERATURE:	No Data Available.
PARTITION COEFFICIENT N-OCTANOL/WATER:	No Data Available.
DECOMPOSITION TEMPERATURE:	No Data Available.
VISCOSITY:	No Data Available.

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY:	No additional information available.
CHEMICAL STABILITY:	Stable under normal conditions.
POSSIBILITY OF HAZARDOUS REACTIONS:	Reacts violently with acids.
CONDITIONS TO AVOID:	Direct sunlight and extremely high or low temperatures.
INCOMPATIBLE MATERIALS:	Strong oxidizers and strong acids.
HAZARDOUS DECOMPOSITION PRODUCTS:	Fume, carbon monoxide, and carbon dioxide.

SECTION 11: TOXICOLOGICAL INFORMATION

INGREDIENT(S)	ATE (Acute Toxicity Estimate) (US)	LC50	LD50
Sodium Carbonate, Anhydrous	Oral: 4090 mg/kg body weight	-	Oral: 4090 mg/kg (Rat)
Water	Oral: 90000 mg/kg body weight	-	Oral: ≥ 90000 mg/kg (Rat)

ACUTE TOXICITY:	
ORAL LD50:	See Above.
INHALATION LC50:	No Data Available.
DERMAL LD50:	No Data Available.

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SECTION 11: TOXICOLOGICAL INFORMATION

ROUTES OF EXPOSURE:	Skin and eye contact.
SKIN CORROSION / IRRITATION:	Causes skin irritation.
SERIOUS EYE DAMAGE / EYE IRRITATION:	Causes serious eye irritation.
RESPIRATORY OR SKIN SENSITIZATION:	Not Classified.
GERM CELL MUTAGENICITY:	Not Classified.
CARCINOGENICITY:	Not Classified.
REPRODUCTIVE TOXICITY:	Not Classified.
SPECIFIC TARGET ORGAN TOXICITY (STOT) - SINGLE EXPOSURE:	Not Classified.
STOT - REPEAT EXPOSURE:	Not Classified.
ASPIRATION HAZARD:	Not Classified.
POTENTIAL HEALTH EFFECTS:	Based on available data, the classification criteria are not met.
SIGNS AND SYMPTOMS OF EXPOSURE:	Symptoms/effects after skin contact: Causes skin irritation. Symptoms/effects after eye contact: Causes serious eye irritation.

SECTION 12: ECOLOGICAL INFORMATION

PERSISTENCE AND DEGRADABILITY:	Not Established.
BIOACCUMULATIVE POTENTIAL:	Not Established.
TOXICITY:	Sodium Carbonate, Anhydrous: LC50 fish 1: 300 mg/L. EC50 <i>Daphnia magna</i> (Water Flea) 1: 265 mg/L. LC50 fish 2: 740 mg/L.
MOBILITY IN SOIL:	No additional information available.
OTHER ADVERSE EFFECTS:	Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

DISPOSAL METHODS:	Waste disposal recommendations: Dispose in a safe manner in accordance with local/national regulations. Ecology (Waste Materials): Avoid release to the environment.
PACKAGING:	Dispose in a safe manner in accordance with local/national regulations.

SECTION 14: TRANSPORT INFORMATION

Transportation of Dangerous Goods (TDG):	Not Regulated.
United States (US) Department of Transportation (DOT):	Not Regulated.
UNITED NATIONS (UN) NUMBER:	Not Applicable.
TRANSPORT HAZARD CLASS:	Not Applicable.
PACKING GROUP:	Not Applicable.
PROPER SHIPPING NAME:	Not Applicable.
SPECIAL SHIPPING INSTRUCTIONS:	Not Applicable.

SECTION 15: REGULATORY INFORMATION

WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS) CLASSIFICATION:	D-2B.
HAZARDOUS PRODUCT REGULATIONS (HPR) COMPLIANCE:	This product has been classified in accordance with the hazard criteria of the HPR and the SDS contains all the information required by the HPR.
CANADIAN DOMESTIC SUBSTANCES LIST (DSL):	Listed.

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SECTION 15: REGULATORY INFORMATION

CANADIAN INGREDIENT DISCLOSURE LIST (IDL):	Listed.
US Toxic Substances Control Act (TSCA):	The components of this product are listed on the TSCA Inventory or are exempted from listing.
US STATE OR LOCAL REGULATIONS:	<i>California Safe Drinking Water And Toxic Enforcement Act (Proposition 65):</i> is not listed on the Proposition 65 lists. No other ingredients in this product are on the Proposition 65 lists.

SECTION 16: OTHER INFORMATION

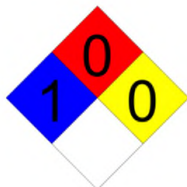
HAZARDOUS MATERIALS IDENTIFICATION SYSTEM (HMIS) Hazard ID:

HEALTH	1
FLAMABILITY	0
REACTIVITY	0
PERSONAL PROTECTION	B

B = Safety Glasses and Gloves.

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; *-Chronic health effect

National Fire Protection Association (NFPA):



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe

PREPARED BY: T. Donovan & Son (1997) Ltd.
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DISCLAIMER:

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. Regulatory requirements are subject to change and may differ between various locations. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.