

T. DONOVAN & SON (1997) LTD.

MATERIAL SAFETY DATA SHEET

SECTION I - PRODUCT IDENTIFICATION

PRODUCT NAME: TRIPLE C # 606

CHEMICAL NAME: ANHYDROUS AMMONIA SOLUTION

MANUFACTURER: T. DONOVAN & SON (1997) LTD

REGULAR PHONE #: 506-642-1500 HOURS: 8:30 - 4:30

EMERGENCY PHONE #: 613-996-6666 CHEMICAL EMERGENCIES ONLY

PRODUCT USE: INDUSTRIAL USE ONLY.

SECTION II - HAZARDOUS INGREDIENTS

INGREDIENTS	CONC. %	CAS #
AMMONIA HYDRATE	15-25 %	7664-41-7
WATER	75-85 %	7732-18-5

SECTION III - PHYSICAL DATA

PHYSICAL STATE	: LIQUID	ODOR	: PUNGENT SUFFOCATING
BOILING POINT (C)	: N/A	FREEZING POINT (C)	: 0 DEG C
ODOR THRESHOLD	: N/A	VAPOR PRESSURE	: N/A
VAPOR DENSITY	: N/AP	PERCENT VOLATILE	: N/A
EVAPORATION RATE	: N/AP	pH	: 12
SPECIFIC GRAVITY: .8974 @ 15 DEG C	COEFF WATER / OIL	: N/AP	
SOLUBILITY IN WATER: SOLUBLE	BULK DENSITY	: N/AP	

SECTION IV - FIRE AND EXPLOSION DATA

FLAMMABILITY	: FLAMMABLE
EXTINGUISHING MEDIA	: WATER SPRAY, CO2, OR DRY CHEMICAL
SPECIAL FIRE FIGHTING PROC	: STOP FLOW OF CHEMICAL. KEEP FIRE EXPOSED CONTAINERS COOL WITH WATER. WEAR NIOSH APPROVED SELF CONTAINED BREATHING APPARATUS.
FIRE & EXPLOSION HAZARDS	: PRESENCE OF OIL OR OTHER COMBUSTIBLE MATERIAL WILL INCREASE FIRE HAZARD.
FLASHPOINT	: NOT APPLICABLE
AUTO-IGNITION TEMPERATURE (C):	651 DEG C
UPPER FLAMMABILITY LIMIT	: 25
LOWER FLAMMABILITY LIMIT	: 16
HAZARDOUS COMB. PROD.	: OXIDES OF NITROGEN
EXPLOSION	SENSITIVITY TO IMPACT: N/A SENSITIVITY TO STATIC : N/A

#606

SECTION V - REACTIVITY DATA

CHEMICAL STABILITY : YES, STABLE UNDER NORMAL CONDITIONS OF USE.

INCOMPATIBILITY : STRONG OXIDIZERS. CONTACT WITH IODINE, BROMINE,  
HYPOCHLORITE, AND CHLORINE WILL FORM EXPLOSIVE

MIXTURES.

CONDITIONS TO AVOID : EXCESSIVE HEAT

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

HAZARDOUS DECOMPOSITION: OXIDES OF NITROGEN

SECTION VI - TOXICOLOGICAL EFFECTS

CHRONIC AND ACUTE EFFECTS UPON ROUTES OF ENTRY

EYE CONTACT: CORROSIVE EFFECT MAY BE DELAYED AND DAMAGE MAY OCCUR WITHOUT THE ONSET OF PAIN.

SKIN CONTACT: CORROSIVE EFFECT MAY BE DELAYED AND DAMAGE MAY OCCUR WITHOUT THE ONSET OF PAIN.

INGESTION: CORROSIVE. MAY CAUSE SEVERE PAIN IN MOUTH, CHEST AND ABDOMEN LEADING TO COUGH, VOMITING AND COLLAPSE. GASTRIC OR ESOPHAGEAL PERFORATION MAY OCCUR AND LUNG IRRITATION AS A DELAYED REACTION.

INHALATION: CORROSIVE. CAN CAUSE IRRITATION AND INFLAMMATION OF THE RESPIRATORY SYSTEM RESULTED IN HOARSENESS AND TIGHTNESS OF THROAT, LARYNGITIS. CHRONIC LUNG DISEASE OR RESIDUAL DYSFUNCTION IS POSSIBLE IF OVEREXPOSURE HAS CAUSED LOWER AIRWAY INJURY.

EXPOSURE LIMITS : N/A SYNERGISTIC PRODUCTS : NONE

IRRITANCY : N/A SENSITIZATION : NONE

CARCINOGENICITY : NONE TERATOGENICITY : NONE

MUTAGENICITY : NONE REPRODUCTIVE TOXICITY : NONE

SECTION VII - EMERGENCY AND FIRST AID PROCEDURES

IN ALL CASES, SEEK MEDICAL ATTENTION IMMEDIATELY

EYE CONTACT: FLUSH EYES WITH WATER FOR A MINIMUM OF 30 MINUTES, 60 MINUTES IS PREFERRED, HOLDING THE EYELIDS OPEN. DO NOT TRANSPORT VICTIM UNTIL THE RECOMMENDED FLUSHING PERIOD IS COMPLETE UNLESS FLUSHING CAN BE CONTINUED DURING TRANSPORT.

SKIN CONTACT: FLUSH WITH RUNNING WATER AND WASH WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING. COMPLETELY DECONTAMINATE CLOTHING AND ALL PROTECTIVE EQUIPMENT.

INGESTION: DO NOT INDUCE VOMITING. DRINK LARGE QUANTITIES OF WATER OR MILK. IF VOMITING OCCURS NATURALLY, HAVE VICTIM LEAN FORWARD. REPEAT ADMINISTERING WATER.

INHALATION: REMOVE FROM CONTAMINATED AREA. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF DIFFICULTY BREATHING, GIVE OXYGEN ONLY BY TRAINED PERSONNEL.

SECTION VIII - PREVENTIVE MEASURES

EYE PROTECTION : SAFETY OR CHEMICAL GLASSES FOR FULL FACE MASK.  
SKIN PROTECTION : RUBBER OR PLASTIC GLOVES, COVERALLS OR APRON.  
RESPIRATORY PROTECTION : WEAR NIOSH APPROVED RESPIRATOR.  
ENGINEERING CONTROLS : GENERAL MECHANICAL VENTILATION.

SPILL & LEAK PROCEDURES : WEAR NECESSARY PROTECTIVE CLOTHING AND EQUIPMENT. CONSTRUCT A BARRIER AND NEUTRALIZE WITH WATER FOR DISPOSAL. PUMP SPILLED PRODUCT INTO WASTE CONTAINER.

WASTE DISPOSAL : DISPOSE ACCORDING TO LOCAL, PROVINCIAL AND FEDERAL LAWS.

HANDLING & STORAGE : STORE IN CLOSED CONTAINERS IN DRY, COOL AREAS.

SECTION IX - TRANSPORT AND REGULATORY INFORMATION

TDG REGULATION : AMMONIA SOLUTION  
CLASS 8, UN 2672  
PACKING GROUP III

WHMIS CLASSIFICATION : CLASS E, D-1B

PREPARED BY: TECHNICAL SERVICES DEPARTMENT  
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