



MATERIAL SAFETY DATA SHEET

TROJAN CHEMICALS
 4 BLAIR DRIVE
 BRAMPTON, ONTARIO
 L6T 2H5
 TEL# (905) 456-9444

EMERGENCY # CANUTEC (613) 996-6666
"USE IN CASE OF CHEMICAL EMERGENCY ONLY"

W.H.M.I.S. CLASSIFICATION: B2, D2B

MATERIAL REFERENCE NO: 6115000

SECTION I - MATERIAL IDENTIFICATION AND USE

MATERIAL NAME/I.D.: TRL 1150 "SUB ZERO CLEANER"	
CHEMICAL NAME: NOT APPLICABLE	CHEMICAL FAMILY: SURFACTANT BLEND
CHEMICAL FORMULA: MIXTURE	MOLECULAR WEIGHT: NOT APPLICABLE
SYNONYMS: NONE	
MATERIAL USE: SUB ZERO CLEANING & ANTI-FREEZE	

SECTION II - HAZARDOUS INGREDIENTS OF MATERIAL

HAZARDOUS INGREDIENTS	APPROX. % CONCENT.	TLV PPM	C.A.S. NUMBERS	LD 50 RABBITS
ISOPROPYL ALCOHOL	10.0-30.0	400	67-63-0	5045 MG/KG
DIPROPYLENE GLYCOL	1.0-5.0	100	34590-94-8	5400 µL/KG
MONOMETHYL ETHER				
ALCOHOL ETHOXYLATE	1.0-5.0	NO DATA	68131-39-5	2000 MG/KG
POTASSIUM HYDROXIDE	1.0-5.0	2 MG/M3	1310-58-3	273 MG/KG

SECTION III - PHYSICAL DATA FOR MATERIAL

PHYSICAL STATE: LIQUID		
ODOUR AND APPEARANCE: CLEAR, COLOURLESS LIQUID; ALCOHOL ODOUR.		
ODOUR THRESHOLD (PPM) NOT AVAILABLE	SPECIFIC GRAVITY 0.962	VAPOUR PRESSURE (MM) NOT AVAILABLE
VAPOUR DENSITY (AIR=1) >1	EVAPORATION RATE NOT AVAILABLE	SOLUBILITY IN WATER (20 ø C) COMPLETE
BOILING POINT (C) NOT AVAILABLE	FREEZING POINT (C) NOT AVAILABLE	% VOLATILE (BY WEIGHT) >85
pH (100% SOLUTION) 12.5-13.5	DENSITY (G/ML) NOT APPLICABLE	COEF.OF WATER/OIL DISTR NOT AVAILABLE



MATERIAL SAFETY DATA SHEET

MATERIAL REFERENCE NO: 6115000

SECTION IV - FIRE AND EXPLOSION HAZARD OF MATERIAL

FLAMMABILITY: FLAMMABLE		
IF YES, UNDER WHICH CONDITIONS: VAPOURS IN A SEALED CONTAINER ARE		
FLAMMABLE.		
MEANS OF EXTINCTION: WATER FOG, ALCOHOL FOAM, DRY CHEMICAL, CO2		
SPECIAL PROCEDURES: WEAR FULL PROTECTIVE GEAR INCLUDING SELF-		
CONTAINED BREATHING APPARATUS.		
FLASH POINT (C) AND METHOD: MINIMUM 13 (C)		
HAZARDOUS COMBUSTION PRODUCTS: OXIDES OF CARBON, ALDEHYDES.		
UPPER EXPLOSION LIMIT	LOWER EXPLOSION LIMIT	AUTOIGNITION TEMP (C)
NOT AVAILABLE	NOT AVAILABLE	NOT AVAILABLE
EXPLOSION DATA SENSITIVITY	RATE OF BURNING	EXPLOSIVE POWER
TO CHEMICAL IMPACT		
NOT AVAILABLE	NOT AVAILABLE	NOT AVAILABLE
SENSITIVITY TO STATIC DISCHARGE: NOT AVAILABLE		

SECTION V - REACTIVITY DATA

CHEMICAL STABILITY: STABLE		
IF NO, UNDER WHICH CONDITIONS:		
HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.		
INCOMPATIBILITY TO OTHER SUBSTANCES: YES		
IF SO, WHICH ONES: OXIDIZING MATERIALS, STRONG ACIDS		
REACTIVITY AND UNDER WHAT CONDITIONS: MAY BE CORROSIVE TO LEAD AND		
ALUMINUM.		
HAZARDOUS DECOMPOSITION PRODUCTS: OXIDES OF CARBON, FORMALDEHYDE		

SECTION VI - HEALTH HAZARD DATA

ROUTE OF ENTRY:		
SKIN CONTACT: YES	SKIN ABSORPTION: LOW	EYE CONTACT: YES
INHALATION: YES	INGESTION: YES	



MATERIAL SAFETY DATA SHEET

MATERIAL REFERENCE NO: 6115000

|EFFECTS OF ACUTE EXPOSURE TO MATERIAL: |
 |EYES-CONTACT MAY CAUSE MODERATE IRRITATION, BURNING SENSATION, |
 |REDNESS, SWELLING, BLURRED VISION. |
 |SKIN-CONTACT MAY CAUSE MINOR IRRITATION. REPEATED OR PROLONGED |
 |CONTACT CAN CAUSE DRYING AND CRACKING OF SKIN. |
 |INHALATION-EXCESSIVE INHALATION OF MISTS OR VAPOURS CAN CAUSE |
 |IRRITATION OF THE RESPIRATORY TRACT, HEADACHE, NAUSEA, VOMITING, |
 |DIZZINESS, DROWZINESS. |
 |INGESTION-CAN CAUSE IRRITATION OF THE GASTROINTESTINAL TRACT. MAY |
 |CAUSE NAUSEA, VOMITING, DIARRHEA, HEADACHE, DIZZINESS, FATIGUE AND |
 |CENTRAL NERVOUS SYSTEM DEPRESSION. |
 |

|EFFECTS OF CHRONIC EXPOSURE TO MATERIAL: |
 |EYES-EXCESSIVE AND PROLONGED CONTACT MAY CAUSE CORNEAL DAMAGE. |
 |SKIN-REPEATED OR PROLONGED CONTACT CAN DRY SKIN CAUSING DERMATITIS. |
 |

LD 50 OF MATL.	LC 50 OF MATL.	EXPOSURE LIMIT(S)	IRRITANCY OF MATL
NOT AVAILABLE	NOT AVAILABLE	NOT AVAILABLE	MODERATE

SENSITIZATION OF MATERIAL	SYNERGISTIC MATERIALS
NOT AVAILABLE	NOT AVAILABLE

|CARCINOGENICITY, REPRODUCTIVE EFFECTS, TERATOGENICITY, MUTAGENICITY |
 |NONE KNOWN |
 |

SECTION VII - PREVENTIVE MEASURES

PERSONAL PROTECTIVE EQUIPMENT:

| GLOVES: IMPERMEABLE WHEN HANDLING CONCENTRATE. |
 |RESPIRATORY: NONE NORMALLY REQUIRED. USE NIOSH/MSHA APPROVED |
 | RESPIRATOR FOR ORGANIC VAPOURS WHEN AIRBORNE |
 | CONCENTRATIONS EXCEED EXPOSURE LIMITS. |
 | EYE: SAFETY GLASSES |
 | FOOTWEAR: NO SPECIAL REQUIREMENTS |
 | CLOTHING: NO SPECIAL REQUIREMENTS. COVER EXPOSED SKIN. |
 | OTHER: EYE WASH AND SAFETY SHOWER |
 |ENGINEERING CONTROLS (EG VENTILATION, ENCLOSED PROCESS): LOCAL |
 | IS SUFFICIENT. |

|LEAK AND SPILL PROCEDURE: REMOVE IGNITION SOURCES. CONTAIN SPILL. |
 |TRANSFER TO SUITABLE CONTAINER FOR REUSE OR DISPOSAL. ABSORB |
 |REMAINING MATERIAL ONTO NON-COMBUSTIBLE ABSORBANT AND SCOOP INTO |
 |DISPOSAL CONTAINER. FLUSH REMAINING RESIDUE WITH VOLUMES OF WATER. |

|WASTE DISPOSAL: DISPOSE OF IN ACCORDANCE WITH LOCAL, PROVINCIAL AND |
 |FEDERAL REGULATIONS. |



MATERIAL SAFETY DATA SHEET

MATERIAL REFERENCE NO: 6115000

SECTION VIII - FIRST AID MEASURES

| PROCEDURES: |

| EYES-IMMEDIATELY FLUSH WITH RUNNING WATER FOR AT LEAST 15 MINUTES |

| WHILE HOLDING EYELIDS OPEN. SEEK MEDICAL ATTENTION. |

| SKIN-FLUSH WITH RUNNING WATER FOR AT LEAST 15 MINUTES WHILE REMOVING |

| CONTAMINATED CLOTHING. IF IRRITATION PERSISTS SEEK MEDICAL ATTENTION |

| LAUNDRER CONTAMINATED CLOTHING BEFORE REUSE. |

| INGESTION-DO NOT INDUCE VOMITING. GET IMMEDIATE MEDICAL ATTENTION. |

| |

| |

| |

| SOURCES USED: RAW MATERIAL SUPPLIER'S MATERIAL SAFETY DATA SHEETS |

| ADDITIONAL INFORMATION: NONE |

SECTION IX - TDG SHIPPING INFORMATION

SHIPPING NAME	CLASS	UN NO.	PACKING GROUP
FLAMMABLE LIQUIDS N.O.S. (ISOPROPYL ALCOHOL)	3	1993	III

| HANDLING PROCEDURES AND EQUIPMENT: AVOID SOURCES OF IGNITION WHEN |

| HANDLING CONCENTRATE. DO NOT SMOKE. AVOID CONTACT WITH EYES AND |

| SKIN. WASH THOROUGHLY AFTER HANDLING. |

| STORAGE REQUIREMENTS: STORE IN A COOL DRY AREA AWAY FROM |

| INCOMPATIBLE MATERIALS AND SOURCES OF HEAT. KEEP CONTAINER CLOSED |

| WHEN NOT IN USE. |

| SPECIAL SHIPPING INFORMATION: NONE |

SECTION X - HMIS HAZARD RATING INFORMATION

FLAMMABILITY	REACTIVITY	HEALTH
3	0	2

SECTION XI - PREPARATION DATE OF MSDS

| PREPARED BY: TECHNICAL DEPARTMENT TELEPHONE # (905) 456-9444 |

| REVIEWED: OCTOBER 11, 2009 REPLACES JUNE 15, 2006 |

DISCLAIMER:

THE INFORMATION CONTAINED HEREIN IS COMPILED FROM SOURCES BELIEVED TO BE RELIABLE. THE MANNER AND CONDITIONS OF USE AND HANDLING MAY INVOLVE OTHER AND ADDITIONAL CONSIDERATIONS. WE ACCEPT NO RESPONSIBILITY FOR THE ACCURACY, SUFFICIENCY, RELIABILITY OR FOR ANY LOSS OR INJURY RESULTING FROM THE USE OF THE INFORMATION.