



MATERIAL SAFETY DATA SHEET

SECTION 1 MATERIAL IDENTIFICATION

PRODUCT NAME: **QUATRO**

PRODUCT USE: LUBRICANT

WHMIS CLASSIFICATION CLASS A: COMPRESSED GAS, CLASS: D-DIV 1. SUB (B).
CLADIV 2 SUB A & SUB (B)

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CHEMICAL NAME	N.A.
CHEMICAL FAMILY	SOLVENT BASED PRESSURIZED BLEND
CHEMICAL FORMULA	N.A.
MOLECULAR WEIGHT	N.A.
FLAMMABILITY	0
REACTIVITY	0
HEALTH	2
PERSONAL PROTECTION	1

SECTION 2 HAZARDOUS INGREDIENTS OF MATERIAL

HAZARDOUS INGREDIENTS	PERCHOROTHYLENE
APPROX. CONCENTRATION %	55-65
CASNA/ UN NUMBER	127-18-4
EXPOSURE LIMITS	50 PPM
LD50/LC50/SPECIES/ROUTE	LD50 (ORAL-RAT): 2629 mg/kg LC50 34, 2000 MGM3/8 HRS
HAZARDOUS INGREDIENTS	METHYLENE CHLORIDE
APPROX. CONCENTRATION %	30-60
CASNA/ UN NUMBER	75092
EXPOSURE LIMITS	250ppm
LD50/LC50/SPECIES/ROUTE	LD50 (ORAL RAT) 2388 mg/kg
HAZARDOUS INGREDIENTS	DIETHYLENE GLYCOL MONOBUTYL ETHER
APPROX. CONCENTRATION %	1-5
CASNA/ UN NUMBER	112-34-5
EXPOSURE LIMITS	1000 PPM
LD50/LC50/SPECIES/ROUTE	LD50- 300,000 PPM/2 HRS
PROPELLANT	CARBON DIOXIDE

SECTION 3 PHYSICAL DATA FOR MATERIAL

PHYSICAL STATE GAS/LIQUID/SOLID AEROSOL
ODOUR/APPEARANCE AEROSOL CAN GIVE WET BROWN SPRAY,
SOLVENT ODOUR.
ODOUR THRESHOLD (PPM) N.A.
SPECIFIC GRAVITY CONCENTRATE: 1.206
VAPOUR PRESSURE (MM) 144 psig AT 20 DEG. C.
VAPOUR DENSITY (AIR=1) >1
EVAPORATION RATE NE
BOILING POINT (DEG. C) INITIAL: 121 DEG. C.
FREEZING POINT (DEG. C) <0 DEG. C.
SOLUBILITY IN WATER (20 DEG. C) INSOLUBLE
% VOLATILE (BY VOL.) >86%
PH N.A.
DENSITY (/ML) N.A.
COEFFICIENT OF WATER/OIL DISTRIBUTION N.A.

SECTION 4 FIRE AND EXPLOSION HAZARD

FLAMMABILITY Y/N CONDITIONS? NOT FLAMMABLE
MEANS OF EXTINCTION USE FOAM, DRY Chemical, CO2, WATER FOG TO
EXTINGUISH FIRE.
SPECIAL PROCEDURES NA
FLASHPOINT (DEG. C) AND METHOD FLAME EXTENSION NEGLIBLE
UPPER EXPLOSION LIMIT (% BY VOL.) NA
LOWER EXPLOSION LIMIT (% BY VOL.) NA
AUTO-IGNITION TEMP. (DEG. C) NA
TDG FLAMMABILITY CLASSIFICATION N.A.
HAZARDOUS COMBUSTION PRODUCTS OXIDES OF CARBON, SULPHUR, TRACES
OF HC1, PHOSGENE
EXPLOSION SENSITIVITY TO CHEM. IMPACT N.A.
RATE OF BURNING N.A.
EXPLOSIVE POWER N.A.
SENSITIVITY TO STATIC DISCHARGE N.A.

SECTION 5 REACTIVITY DATA

CHEM. STABILITY Y/N-CONDITIONS? YES,
INCOMPATIBILITY TO SUBSTANCES Y/N? DO NOT MIX WITH STRONG ACIDS,
OXIDANTS, ETC.
REACTIVITY-CONDITIONS? NA
HAZARDOUS DECOMPOSITION PRODUCTS HYDROCARBON FUMES, OXIDES OF
CARBON, CHLORINATED COMPOUND

SECTION 6 TOXICOLOGICAL PROPERTIES

ROUTE OF ENTRY SKIN CONTACT Y/N YES
ROUTE OF ENTRY SKIN ABSORPTION Y/N YES
ROUTE OF ENTRY EYE CONTACT Y/N YES
ROUTE OF ENTRY INHALATION ACUTE Y/N YES
ROUTE OF ENTRY INHALATION CHRONIC Y/N YES

ROUTE OF ENTRY INGESTION Y/N	YES
EFFECTS OF ACUTE EXPOSURE	PROLONGED EXPOSURE MAY IRRITATE SKIN, EYES AND MUCOUS MEMBRANES. AT LOW CONCENTRATIONS IT CAUSES A FEELING OF DRUNKENNESS AND DECREASED ALERTNESS. AT VERY HIGH CONCENTRATIONS IT CAN CAUSE INCOORDINATION, LOSS OF CONSCIOUSNESS AND POSSIBLY DEATH. IN EXTREME CASES, 2-BUTOXYETHANOL MAY CAUSE KIDNEY AND LIVER DAMAGE.
EFFECTS OF CHRONIC EXPOSURE	MAY CAUSE SKIN DRYING. ABSORBED METHYLENE CHLORIDE CAN HAVE EFFECT ON NERVOUS SYSTEM. HOWEVER, AT LOW CONCENTRATIONS NO PERMANENT EFFECT ON THE NERVOUS SYSTEM HAS BEEN NOTED. EXPOSURE TO VERY HIGH CONCENTRATIONS FOR LONG PERIODS OF TIME HAS CAUSED CANCER IN SOME ANIMAL SPECIES.
LD50/SPECIES/ROUTE OF ENTRY	N.A.
IRRITANCY OF PRODUCT	HAZERDOUS BY WHMIS CRITERIA
EXPOSURE LIMITS	N.A.
LC50/SPECIES/ROUTE OF ENTRY	N.A.
SENSITIZATION TO PRODUCT	NONE KNOWN
SYNERGISTIC MATERIALS	NONE KNOWN
CARCINOGENICITY Y/N	IN LABORATORY STUDIES, Prolonged EXPOSURE TO HIGH CONCENTRATIONS OF METHYLENE CHLORIDE HAS CAUSED CANCER IN SOME ANIMAL SPECIES. HOWEVER, STUDIES OF WORKERS EXPOSED TO METHYLENE CHLORIDE TEND TO SHOW THAT IT IS NOT A STRONG CARCINOGENIC SUBSTANCE. NO CANCER DUE TO WORKPLACE EXPOSURE TO METHYLENE CHLORIDE HAS BEEN NOTED.
REPRODUCTIVE EFFECTS	NONE KNOWN
TERATOGENCITY Y/N	N.A.
MUTAGENICITY Y/N	N.A.

SECTION 7 PREVENTIVE MEASURES

PERSONAL PROTECTIVE EQUIPMENT	NOT NORMALLY REQUIRED
GLOVES (SPECIFY)	NOT NORMAL REQUIRED. IF PRODUCT CONTACT IS EXPECTED USE RUBBER OR VITON GLOVES.
RESPIRATORY (SPECIFY)	NOT NORMALLY REQUIRED. HOWEVER, FOR CONTINUOUS INDOOR USE OR WHEN TLV IS EXCEEDED, USE A SELF-CONTAINED BREATHING APPARATUS.
EYE (SPECIFY)	CHEMICAL SAFETY GOGGLES
FOOTWEAR (SPECIFY)	NOT NORMALLY REQUIRED
CLOTHING (SPECIFY)	NOT NORMALLY REQUIRED
OTHER (SPECIFY)	EYE BATH AND HAND WASHING FACILITY.
ENGINEERING CONTROLS	PROVIDE MECHANICAL VENTILATION OF CONFINED SPACES FOR CONTINUOUS USE OR IF TLV IS EXCEEDED. VENTILATE AREA. REMOVE ALL SOURCES OF IGNITION AND OPEN FLAMES OR SPARKS. WEAR PROTECTIVE EQUIPMENT. SMALL SPILLS MAY BE WIPED. LARGE SPILLS SHOULD BE COLLECTED FOR DISPOSAL.
LEAK AND SPILL PROCEDURE	SUITABLE ABSORBENT MATERIAL CAN BE USED TO SOAK

WASTE DISPOSAL	UP SPILLS. IF NECESSARY, WASH CONTAMINATED SURFACES WITH A SOLVENT BASED CLEANER. DO NOT PUNCTURE OR INCINERATE. USE STANDARD WASTE DISPOSAL PROCEDURES IN ACCORDANCE WITH FEDERAL, PROVINCIAL AND LOCAL REGULATIONS.
HANDLING PROCEDURES/EQUIPMENT	KEEP AWAY FROM HEAT SOURCES, SPARKS, FLAMES, ETC. DO NOT PLACE IN HOT WATER.
STORAGE REQUIREMENTS	STORE IN COOL, WELL VENTILATED AREA BELOW 50 DEG. C.
SPECIAL SHIPPING INFORMATION	LABEL AS "CONSUMER COMMODITY"

SECTION 8 FIRST AID MEASURES

SKIN	REMOVE CONTAMINATED CLOTHING AND WASH SKIN WITH SOAP AND WATER.
EYE	FLUSH IMMEDIATELY WITH WATER FOR AT LEAST 15 MINUTES. SEEK MEDICAL ATTENTION.
INHALATION	REMOVE TO FRESH AIR. GIVE ARTIFICIAL RESPIRATION IF BREATHING HAS STOPPED; GIVE OXYGEN IF BREATHING IS DIFFICULT. CALL A PHYSICIAN IMMEDIATELY.
INGESTION	GIVE TWO GLASSES OF WATER. DO NOT INDUCE VOMITING. CALL A PHYSICIAN.
GENERAL ADVICE	IF VICTIM VOMITS, SPONTANEOUSLY LEAN HEAD FORWARD TO AVOID MATERIAL ENTERING LUNGS. CALL AMBULANCE.

PREPARED BY: ECO-CHOICE INDUSTRIES LAB GROUP

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