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MATERIAL SAFETY DATA SHEET

KRYSTAL KLEER

SECTION 1 MATERIAL IDENTIFICATION

WHMIS CLASSIFICATION
HMIS

WHMIS CLASS B2, D-2B
HEALTH 2, FLAMMABILITY 4, REACTIVITY 1,
PERSONAL PROTECTION B
MIXTURE
NOT APPLICABLE
WINDOW CLEANER

CHEMICAL FORMULA
MOLECULAR WEIGHT
MATERIAL USE

SECTION 2 HAZARDOUS INGREDIENTS OF MATERIAL

HAZARDOUS INGREDIENT
APPROX. CONCENTRATION %
CAS
EXPOSURE LIMITS
LD50/LC50/SPECIES/ROUTE

ISOPROPANOL
60-100
67-63-0
TWA: 400 CEIL: 500 (PPM) TWA: 900 CEIL: 1225 (MG/M³)
ORAL (LD50) MG/KG: ACUTE: 3600 MG/KG (MOUSE)
VAPOR(LC50): ACUTE 16970 (PPM) 4 HOURS (RAT)

HAZARDOUS INGREDIENT
APPROX. CONCENTRATION %
CAS
EXPOSURE LIMITS
LD50/LC50/SPECIES/ROUTE

ETHYLENE GLYCOL MONOBUTYL ETHER.
10-40
111-76-2
TWA: 50 CEIL: 150 (PPM) TWA: 240 CEIL 720 (MG/M³)
ORAL (LD50): ACUTE: 470 MG/KG (RAT) DERMAL
(LD50) ACUTE 220 MG/KG (RABBIT)

SECTION 3 PHYSICAL DATA FOR MATERIAL

PHYSICAL STATE
ODOUR AND APPEARANCE
ODOUR THRESHOLD (PPM)
SPECIFIC GRAVITY
VAPOUR PRESSURE (MM)
VAPOUR DENSITY (AIR =1)
EVAPORATION RATE
BOILING POINT (°C)
FREEZING POINT (°C)
SOLUBILITY IN WATER (20°C)
% VOLATILE (BY VOL.)
PH

LIQUID
ALCOHOL ODOUR, BLUE LIQUID
NOT AVAILABLE
0.80
NOT DETERMINED
NOT DETERMINED
NOT DETERMINED
49°C (120°F)
NOT DETERMINED
SOLUBLE
>55
NOT APPLICABLE

SECTION 4 FIRE AND EXPLOSION DATA

FLAMMABILITY	FLAMMABLE
MEANS OF EXTINCTION	FLAMMABLE LIQUID, USE CO ₂ , ALCOHOL FOAM AND DRY CHEMICAL. COOL CONTAINING VESSELS WITH WATER JET IN ORDER TO PREVENT PRESSURE BUILD-UP, AUTO IGNITION OR EXPLOSION.
SPECIAL PROCEDURES	A SELF-CONTAINED BREATHING APPARATUS SHOULD BE USED TO AVOID INHALATION OF THE PRODUCT. MOVE CONTAINING VESSELS FROM FIRE IF WITHOUT RISK.
FLASHPOINT (°C) AND METHOD	CLEVELAND OPEN CUP: 29°C (84°F)
UPPER EXPLOSION LIMIT (% BY VOL.)	UPPER: 12% (ISOPROPYL ALCOHOL)
LOWER EXPLOSION LIMIT (% BY VOL.)	LOWER: 2%
HAZARDOUS COMBUSTION PRODUCTS	CO, CO ₂
EXPLOSION SENSITIVITY TO CHEM. IMPACT	NOT AVAILABLE

SECTION 5 REACTIVITY DATA

CHEMICAL STABILITY	STABLE
INCOMPATIBILITY? TO WHAT?	AVOID STRONG OXIDIZERS.
HAZARDOUS DECOMPOSITION PRODUCTS	NOT AVAILABLE

SECTION 6 TOXICOLOGICAL PROPERTIES

ROUTE OF ENTRY SKIN CONTACT Y/N	Y
ROUTE OF ENTRY SKIN ABSORPTION Y/N	N
ROUTE OF ENTRY EYE CONTACT Y/N	Y
ROUTE OF ENTRY INHALATION ACUTE Y/N	Y
ROUTE OF ENTRY INHALATION CHRONIC Y/N	N
ROUTE OF ENTRY INGESTION Y/N	Y
EFFECTS OF ACUTE EXPOSURE	CORROSIVE TO EYES ON CONTACT. INHALATION OF THE SPRAY MIST MAY PRODUCE SEVERE IRRITATION OF RESPIRATORY TRACT. HARMFUL OR FATAL IF SWALLOWED. SLIGHTLY DANGEROUS TO DANGEROUS IN CASE OF SKIN CONTACT (IRRITANT), OF EYE CONTACT (IRRITANT).
EFFECTS OF CHRONIC EXPOSURE	PROLONGED OR REPEATED EXPOSURE CAN CAUSE DRYING, DEFATTING AND DERMATITIS.
SYNERGISTIC MATERIALS	NOT AVAILABLE
CARCINOGENICITY Y/N	N
REPRODUCTIVE EFFECTS Y/N	N
TERATOGENICITY Y/N	N
MUTAGENICITY Y/N	N

SECTION 7 PREVENTIVE MEASURES

GLOVES	IMPERVIOUS GLOVES
EYEWEAR	SAFETY GLASSES
FOOTWEAR	AS REQUIRED BY EMPLOYER CODE
CLOTHING	AS REQUIRED BY EMPLOYER CODE
ENGINEERING CONTROLS	GOOD GENERAL VENTILATION SHOULD BE SUFFICIENT TO CONTROL AIRBORNE LEVELS.
LEAK AND SPILL PROCEDURE	ABSORB WITH DRY EARTH, SAND OR OTHER NON-COMBUSTIBLE MATERIAL. FINISH CLEANING BY SPREADING WATER ON THE CONTAMINATED SURFACE AND DISPOSE OF ACCORDING TO LOCAL AND REGIONAL AUTHORITY REQUIREMENTS.

WASTE DISPOSAL
STORAGE REQUIREMENTS

CONSULT YOUR LOCAL OR REGIONAL AUTHORITIES.
STORE IN ORIGINAL CONTAINER AND PROTECT FROM
FREEZING, AWAY FROM INCOMPATIBLE MATERIALS.
STORE IN A DRY, COOL AND WELL VENTILATED AREA.
ENSURE STORAGE AREA HAS ADEQUATE VENTILATION
AND NO SOURCE OF OPEN FLAME OR SPARK.

SECTION 8 FIRST AID MEASURES

SKIN	FLUSH WITH WATER. IF IRRITATION PERSISTS, SEEK MEDICAL ATTENTION. COMPLETELY DECONTAMINATE CLOTHING, SHOES AND LEATHER GOODS BEFORE REUSE OR DISCARD.
EYE	IMMEDIATELY FLUSH EYES WITH RUNNING WATER FOR AT LEAST 15 MINUTES, KEEPING EYELIDS OPEN. SEEK MEDICAL ATTENTION.
INHALATION	REMOVE TO FRESH AIR. IF SYMPTOMS PERSIST, CALL A PHYSICIAN.
INGESTION	HAVE CONSCIOUS PERSON DRINK 2 GLASSES OF WATER AND INDUCE VOMITING BY GIVING 30 ML SYRUP OF IPECAC. SEEK MEDICAL ATTENTION IMMEDIATELY.

*VALIDATED BY YORK CHEMICAL TECHNOLOGIES INC
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