



LA COMPAGNIE ZEP DU CANADA
FIRST IN MAINTENANCE AND SANITATION
PREMIERS EN ENTRETIEN ET ASSAINISSEMENT

11627 - 178 Street
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HAZARDous MATERIAL SAFETY DATA SHEET
AND SAFE HANDLING AND DISPOSAL INFORMATION

ISSUE DATE: 11/06/03
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PRODUCT NAME: **SCREEN CLEAN AEROSOL**
 PROD NO.: 0070 Aerosol VDT/CRT, Screen Cleaner

SECTION I - EMERGENCY CONTACTS

FOR PRODUCT INFORMATION:

Telephone: 1 (877) 428-9937 Between 8:00am-5:00pm (MST)

FOR A MEDICAL EMERGENCY: 24 Hour Service

Telephone CANUTEC: (Call Collect) (613) 996-6666

FOR A TRANSPORTATION EMERGENCY: 24 Hour Service

Telephone CANUTEC: (Call Collect) (613) 996-6666

DESIGNATIONS

SECTION II - HAZARDOUS INGREDIENTS

TLV (PPM) EFFECTS (SEE REVERSE) % IN PROD.

** ISOPROPYL ALCOHOL ** ipa; dimethylcarbinol; 2-propanol; CAS# 67-63-0; RTECS# NT8050000
 LD50: 5045 mg/kg SPECIES: RAT ROUTE: ORL
 LC50: N/D mg/m3 SPECIES: N/D ROUTE: N/D
 ** ETHYLENE GLYCOL MONOBUTYL ETHER ** 2-butoxyethanol; butyl cellosolve; CAS# 111-78-2; RTECS# KJ8575000; OSHA PEL (SKIN)- 25 ppm
 LD50: 1746 mg/kg SPECIES: RAT ROUTE: ORL
 LC50: 700 ppm SPECIES: MOUSE ROUTE: INH
 ** BLEND OF ISOBUTANE; CAS# 75-28-5; RTECS# TZ4300000 & [PROPANE; CAS# 74-98-6; RTECS# TX2775000] & [n-BUTANE; CAS# 106-97-8; RTECS# EJ4200000] ** OSHA PEL-1000 ppm
 LD50: SPECIES: ROUTE:
 LC50: SPECIES: ROUTE:

400	IRR FBL	10-30
20	TOX IRR CBL	1-5
800	FBL	3-7

THE WHMIS CLASSIFICATION FOR THIS PRODUCT IS: A D2B

SECTION III - TOXICOLOGICAL DATA

SPECIAL NOTE: MSDS data pertains to the product as dispensed from the container. Adverse health effects would not be expected under recommended conditions of use (diluted) so long as prescribed safety precautions are practiced.

ACUTE EFFECTS OF OVEREXPOSURE:

Eye irritant. Eye contact may produce stinging, burning, inflammation, and in extreme cases injury to eye tissue may occur. Prolonged exposure to mists or vapors may be irritating to skin and upper respiratory tract. Overexposure can result in mild narcotic effects, including flushing, headache, dizziness and nausea.

Inhalation of aerosol mist may produce chemical pneumonia.

Exposure may aggravate existing skin disorders such as dermatitis.

CHRONIC EFFECTS OF OVEREXPOSURE:

Repeated or prolonged, skin contact may produce some dryness of skin. Chronic effects from alcohol vapors are rare and would result from severe, prolonged, and repeated contact, which is usually precluded by irritation. In most extreme cases, weakness, drowsiness or loss of consciousness could result.

Animal studies indicate a potential for liver, kidney, or red blood cell damage. Relevance of these studies or exposure levels which might produce these effects in humans has not been established.

None of the hazardous ingredients are listed as carcinogens by IARC, NTP, & OSHA

PRIMARY ROUTES OF ENTRY: Eyes, Skin, Inh

HMIS CODES: HEALTH 1; FLAM. 1; REACT. 0; PERS. PROTECT. A ; CHRONIC HAZ. YES

FIRST AID PROCEDURES:

SKIN : Immediately flush contaminated skin with plenty of water for at least 15 minutes. Get medical attention if irritation develops.

EYES : Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting upper and lower lids. Get medical attention at once.

INHALE: If symptoms occur, move affected person to fresh air. If symptoms persist, get medical attention promptly.

INGEST: If this product is swallowed, do not induce vomiting. If individual is alert, give plenty of water to drink. Get medical attention at once.

SECTION IV - SPECIAL PROTECTION INFORMATION

PROTECTIVE CLOTHING : The use of neoprene, nitrile or natural rubber gloves is strongly recommended, especially for prolonged contact.

EYE PROTECTION : Wear tight-fitting splash-proof safety glasses especially if contact lenses are worn.

RESPIRATORY PROTECTION: In the unlikely event that exposure levels exceed the PEL/TLV, use an organic vapor respirator.

VENTILATION : Provide local exhaust/ventilation as needed to keep concentration of vapors below exposure limits (PEL/TLV).

SECTION V - PHYSICAL DATA (FOR FILL MATERIAL ONLY)

BOILING POINT (C):	~96	SPECIFIC GRAVITY:	0.95
FREEZING POINT (C):	N/D	VOC CONTENT (CONCENTRATE):	21.9%
VAPOR PRESSURE(mmHg):	N/A	EVAPORATION RATE (WATER = 1):	1.0
VAPOR DENSITY(AIR = 1):	N/A	PH(CONCENTRATE):	10.0
SOLUBILITY IN WATER:	COMPLETE	PH(USE DILUTION OF N/A):	N/A

APPEARANCE AND ODOR : CLOUDY, THIN, COLORLESS LIQUID WITH PLEASANT FRAGRANCE.

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SECTION V - PHYSICAL DATA

0070 SECTION V - PHYSICAL DATA

FLASH POINT(C) (METHOD USED) : N/A
 FLAMMABLE LIMITS : LEL: N/A UEL: N/A
 EXTINGUISHING MEDIA : Water
 FIRE FIGHTING : Wear self-contained positive pres. breathing apparatus.
 HAZARD : Direct water onto intact containers to prevent bursting.
 CONDITIONS OF FLAMMABILITY : None known
 AUTOIGNITION TEMPERATURE (C) : N/D
 HAZARDOUS COMBUSTION PRODUCTS:
 May decompose to form toxic/corrosive gases if exposed to high heat.
 EXPLOSION DATA : N/D

SECTION VI - FIRE OR EXPLOSION HAZARDS (CSMA)

STABILITY : Stable

SECTION VII - REACTIVITY DATA

INCOMPATIBILITY(AVOID) : Heat, open flame, spark, and oxidizing agents.
 POLYMERIZATION : Will not occur.
 HAZARDOUS DECOMPOSITION: May decompose to form toxic/corrosive gases if exposed to high heat.

SECTION VIII - SPILL AND DISPOSAL PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:
 Observe safety precautions in Section 6 during clean-up. Large spills are unlikely due to packaging. Spill may be absorbed on an inert absorbent material and placed in a suitable container for disposal. Wash area thoroughly with a detergent solution.
 WASTE DISPOSAL METHOD:
 Product is consumed in use. Do not crush, puncture, or incinerate spent containers. Large numbers of aerosol containers may require handling as a hazardous waste. Check local, provincial, and federal regulations for proper disposal methods in your area.

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN WHEN HANDLING AND STORING:
 Do not store at temperatures above 120F (39C) or in direct sunlight. Do not puncture or incinerate container.
 Do not breathe spray mists or vapors.
 Clothing or shoes which become contaminated with substance should be removed promptly and not re-worn until thoroughly cleaned.
 Keep out of the reach of children.

SECTION X - TRANSPORTATION DATA

TDG PROPER SHIPPING NAME: CONSUMER COMMODITY,
 TDG HAZARD CLASS: ORM-D TDG PACKING GROUP: N/A
 TDG I.D. NUMBER : N/A TDG LABEL/PLACARD: ORM-D

PREPARED BY: Zep Technical Services, Zep Manufacturing Company of Canada, Edmonton, Alberta, Canada.
 Phone: (780) 453-8100

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NOTICE

Zep Manufacturing Company of Canada is pleased to be of service to you by supplying this Material Safety Data Sheet for your files. This information is intended to aid you in devising safe procedures for using our products and to assist you in complying with applicable regulations for disposal of wastes. We request that you take the time to discard any previous Material Safety Data Sheet for this product so that your files remain up-to-date.

By way of explanation, we have identified in Section II of this form those components which contribute some hazard to our products. The hazard designations correspond to those required under WHMIS and may be interpreted as follows:

ABBREVIATIONS USED IN THE MSDS:

ACGIH: American Conference of Governmental Industrial Hygienists.
 CAR: Carcinogen-Considered a potential or confirmed cancer causing agent by either the National Toxicology Program (NTP), the International Agency for Research on Cancer (IARC) or the Workplace Hazardous Materials Information System.
 CBL: Combustible-At temperatures between (100 F and 200 F) 37.8 and 93.3 C, chemical gives off enough vapor to ignite if a source of ignition is present.
 CNS: Central Nervous System Depressant.
 COR: Corrosive-Causes irreversible alterations in living tissue (e.g. burns).
 EIR: Eye Irritant Only-Causes reversible reddening and/or inflammation of eye tissues.
 Est'd: Estimated.
 FBL: Flammable-At temperature under (100 F) 37.8 C, chemical gives off enough vapor to ignite if a source of ignition is present.
 HTX: Highly Toxic-The probable lethal dose for a 70 kg (150 lb.) man is one teaspoonful or more.
 ING: Ingestion - A primary route of exposure through swallowing of liquid or solid (see below).
 INH: Inhalation - A primary route of exposure through breathing of vapors (see below).
 IRR: Irritant-Causes reversible effects in living tissues (e.g. inflammation).
 N/A: Not Applicable-Category is not appropriate for this product.
 N/D: Not Determined-Insufficient information for a determination for this item.
 NIOSH: National Institute for Occupational Safety and Health.
 PEL: Permissible Exposure Limit-The time-weighted-average exposure value established by WHMIS for repeated exposure during any 8 hours per day, 5 days per week, without adverse effects.
 SEN: Sensitizer - Causes allergic reaction after repeated exposure.
 SKIN: A primary route of exposure through contact with the skin (see below).
 TLV: Threshold Limit Value -- A time-weighted-average exposure value established by the ACGIH for the work period described under PEL, above.
 TOX: Toxic The probable lethal dose for a 70 kg (150 lbs) man is one ounce (28.4 g) or more.
 WHMIS: Workplace Hazardous Materials Information System.

The health and physical data contained in various sections of this form concern the overall hazards of the product. Please note that the EST'D PEL/TLV shown in Section III pertains to airborne concentrations of vapors from the product as a whole. This time-weighted-average is arrived at by using a formula developed by the ACGIH for only those products where the hazardous ingredients have similar toxicological properties. The estimated value should serve only as a guide for providing workplace conditions under which we believe that nearly all workers may be repeatedly exposed 8 hours per day, 5 days per week, without adverse effects. This does not pertain to sensitive individuals or to anyone with an existing medical condition or who may be pregnant; anyone with such a condition should consult a physician prior to use of this product. The HMIS CODES refer to the Hazardous Materials Information System developed by the National Paints and Coatings Association, and is provided, strictly, for those customers that train their employees in its use. We do not endorse or suggest the use of this hazard coding system, since, in our view, it does not adequately present the hazards associated with a more general chemical product line. Primary Route of Entry-this item indicates the way or ways one or more hazardous ingredients may enter the body and cause a generalized-systemic or specific-organ toxic effect.

As a further word of caution, Zep wishes to advise that serious accidents have resulted from the misuse of "emptied" containers. "Empty" containers retain residue (liquid and/or vapor) and can be dangerous. DO NOT pressurize, cut, weld, braze, solder, drill, grind or expose such containers to heat, flame, sparks, or other sources of ignition. They may explode and cause injury or death. Do not attempt to clean since residue is difficult to remove. "Empty" drums should be completely drained, properly bunged and promptly returned to a drum reconditioner. All other containers should be disposed of in an environmentally safe manner and in accordance with government regulations. "Empty" containers should never be reused unless reconditioned.

Thank you for your interest in, and use of, Zep products. Zep Manufacturing Company of Canada is concerned for your health and safety. All Zep products can be used safely if used with proper protective equipment and according to proper handling practices consistent with label instructions and the Material Safety Data Sheet. Before using any Zep product, be sure to read the complete label and the Material Safety Data Sheet. Consult your supervisor, or Zep Manufacturing Company of Canada, if you have any questions.

DISCLAIMER

All statements, technical information and recommendations contained herein are based on available scientific tests or data which we believe to be reliable. The accuracy and completeness of such data are not warranted or guaranteed. We cannot anticipate all conditions under which this information and our products, or the products of other manufacturers in combination with our products, may be used. Zep assumes no liability or responsibility for loss or damage resulting from the improper use or handling of our products, from incompatible product combinations, or from the failure to follow instructions, warnings and advisories in the product's label and Material Safety Data Sheet.