

MATERIAL SAFETY DATA SHEET

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TRANSPORTATION EMERGENCY	NON-TRANSPORTATION	
CALL CHEMTREC: 800-424-9300	HEALTH EMERGENCY PHONE..: (303) 623-5716	
INTERNATIONAL: 703-527-3887	AGFA INFORMATION PHONE..: (201) 440-2500	

1. CHEMICAL PRODUCT IDENTIFICATION:

PRODUCT NAME.....: Curix Screen Cleaner
 PRODUCT CODE.....: HZEW8000 S9EGD000 EFCVV000
 CHEMICAL FAMILY.....: Alcohol photochemical solution
 BUSINESS GROUP.....: Technical Imaging Systems
 AGFA MSDS NUMBER.....: 212t.002

2. COMPOSITION/INFORMATION ON INGREDIENTS:

INGREDIENT NAME /CAS NUMBER	EXPOSURE LIMITS	CONCENTRATION (%)

***** HAZARDOUS INGREDIENTS *****		

Isopropanol 67-63-0	OSHA PEL : 400.00 ppm TWA 980.00 mg/m3 TWA ACGIH TLV: 400.00 ppm TWA 983.00 mg/m3 TWA 500.00 ppm STEL 1230.00 mg/m3 STEL	60-70 %
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* The ACGIH has proposed a change to the limits for isopropanol in the Notice of Intended Changes (1998). (200 ppm and 492 mg/m3 - TWA, 400 ppm and 983 mg/m3 - STEL)

3. HAZARDS IDENTIFICATION:

This product as a whole has not been tested. This hazard information is for the individual ingredients.

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*                               EMERGENCY OVERVIEW                               *
*                               *                                                 *
* WARNING! Flammable; Color: Colorless; Form: Liquid;                         *
* Odor: Alcohol; May cause eye, skin, and respiratory tract                     *
* irritation; Inhalation may cause nausea or dizziness; Vapors                 *
* may spread long distances and ignite; Ground containers and                  *
* equipment before transferring to avoid static sparks.                        *
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POTENTIAL HEALTH EFFECTS:

ROUTE(S) OF ENTRY.....: Eye and skin contact, inhalation of vapors or mists, accidental ingestion.

HUMAN EFFECTS AND SYMPTOMS OF OVEREXPOSURE:

ACUTE INHALATION.....: Inhalation of vapors may cause irritation of the nose and throat with symptoms of coughing, sore throat and runny nose. In addition, inhalation may cause headache, nausea, dizziness and drowsiness.

CHRONIC INHALATION.....: Chronic exposure to organic solvents has been associated with various neurotoxic effects including permanent brain and nervous system damage. Symptoms include: loss of memory, loss of intellectual ability, and loss of coordination.
ACUTE SKIN CONTACT.....: Contact with isopropanol may cause irritation resulting in stinging, reddening and itching.
CHRONIC SKIN CONTACT.....: Chronic skin exposure to solvents may cause effects similar to those identified under chronic inhalation effects.
ACUTE EYE CONTACT.....: Contact with isopropanol may cause irritation resulting in stinging, reddening, tearing and itching.
CHRONIC EYE CONTACT.....: None known.
ACUTE INGESTION.....: Ingestion of this product may cause symptoms similar to those described under Acute Inhalation.
CHRONIC INGESTION.....: None known

CARCINOGENICITY.....: This product is not listed by NTP, IARC or regulated as a carcinogen by OSHA.

MEDICAL CONDITIONS

AGGRAVATED BY EXPOSURE.....: Persons with preexisting eye and skin disorders and impaired pulmonary function may be more susceptible to the effects of this product.

4. FIRST AID MEASURES:

FIRST AID FOR EYES.....: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

FIRST AID FOR SKIN.....: Flush affected areas promptly with water and soap for 15 minutes. Remove contaminated clothing. In case of continued irritation consult physician.

FIRST AID FOR INHALATION: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

FIRST AID FOR INGESTION.: If swallowed, rinse mouth with plenty of water, call a Physician.

5. FIRE FIGHTING MEASURES:

FLASH POINT.....: Isopropanol: 54 F (12 C)

FLAMMABLE LIMITS:

UPPER EXPLOSIVE LIMIT (UEL) (%): 12.7 Isopropanol

LOWER EXPLOSIVE LIMIT (LEL) (%): 2 Isopropanol

EXTINGUISHING MEDIA.....: Water; Dry Chemical; Carbon Dioxide; Foam

SPECIAL FIRE FIGHTING PROCEDURES: Full emergency equipment with self-contained breathing apparatus and full protective clothing should be worn by fire fighters. During a fire irritating and highly toxic gases may be generated by thermal decomposition or combustion. Solvent vapors may be heavier than air. Stagnant air may cause vapors to build up and travel along the ground to an ignition source which may result in a flash back to the source of the vapors.

6. ACCIDENTAL RELEASE MEASURES:

SPILL OR LEAK PROCEDURES.....: Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean up. Dike Spill. Prevent liquid from entering sewers, waterways, or low areas. Soak up with sawdust, sand, oil dry or other absorbent material. For disposal see section 13.

7. HANDLING AND STORAGE:

STORAGE TEMPERATURE (MIN/MAX): Not Established

SHELF LIFE.....: Not Established

SPECIAL SENSITIVITY.....: None known.

HANDLING/STORAGE PRECAUTIONS: Avoid eye and skin contact, and store in well-ventilated area. Keep container tightly closed. Do not store with incompatible materials. Do not store or consume food, drink or tobacco in area where they may become contaminated with this material. For incompatibles see section 10.
OTHER NOTES.....: Keep out of the reach of children.

8. PERSONAL PROTECTION:

PROTECTIVE CLOTHING REQUIREMENTS...: Splash protection required for eyes, e.g., eye glasses with side shields or goggles. For skin protection use chemical resistant gloves and aprons, e.g. made of neoprene, rubber or vinyl.
VENTILATION REQUIREMENTS.....: Use sufficient general room ventilation and/or local exhaust to maintain airborne levels of vapors below applicable exposure limits (see Section 2).
RESPIRATOR REQUIREMENTS.....: An air-purifying particulate/organic vapor cartridge respirator is required anytime inhalation of vapor is possible. Observe OSHA regulations for respirator use (29 CFR 1910.134).
ADDITIONAL PROTECTIVE MEASURES.....: Emergency showers and eye wash stations should be made available. Educate and train employees in the safe use and handling of this product.

9. PHYSICAL AND CHEMICAL PROPERTIES:

PHYSICAL FORM.....: Liquid
COLOR.....: Colorless
ODOR.....: Alcohol
PH.....: Not Established
BOILING POINT.....: Approx. 180 F (82 C)
MELTING/FREEZING POINT....: Less than 32 F (0 C)
SOLUBILITY IN WATER.....: Soluble
SPECIFIC GRAVITY.....: Not Established
BULK DENSITY.....: Not Established
VAPOR PRESSURE.....: Not Established

10. STABILITY AND REACTIVITY:

STABILITY.....: This is a stable material.
HAZARDOUS POLYMERIZATION...: Will not occur.
INCOMPATIBILITIES.....: Oxidizing and reducing agents.
INSTABILITY CONDITIONS.....: None Known
DECOMPOSITION PRODUCTS.....: CO, CO₂, and other potentially toxic fumes.

11. TOXICOLOGICAL INFORMATION:

NO ANIMAL TOXICITY INFORMATION AVAILABLE

12. ECOLOGICAL INFORMATION:

NO ECOLOGICAL INFORMATION AVAILABLE

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD.....: Waste disposal should be in accordance with existing federal, state and local environmental regulations.

14. TRANSPORTATION INFORMATION:

TECHNICAL SHIPPING NAME.....: Isopropanol and water
PRODUCT LABEL.....: Curix Screen Cleaner

DOT (DOMESTIC SURFACE)

PROPER SHIPPING NAME.....: Isopropanol, solution
HAZARD CLASS OR DIVISION: 3
UN/NA NUMBER.....: UN1219
PACKING GROUP: II
DOT PRODUCT RQ lbs (kgs).....: None
HAZARD LABEL(s).....: Flammable Liquid
HAZARD PLACARD(s).....: Flammable

Limited Quantity Exception may apply to this product, for "inner packagings not over 1.0 Liter (0.3 gal) for liquids and 1.0 kg (2.2 lb) for solids". 173.154 (b)(1). Each package must conform to the packaging requirements of Subpart B of Part 173 and may not exceed 30 kg (66 lb) gross weight. For further information consult the 49 CFR.

IMO / IMDG CODE (OCEAN)

PROPER SHIPPING NAME.....: Isopropanol
HAZARD CLASS DIVISION NUMBER...: 3.2
UN NUMBER.....: UN1219
PACKAGING GROUP.....: II
HAZARD LABEL(s).....: Flammable Liquid
HAZARD PLACARD(s).....: Flammable Liquid

ICAO / IATA (AIR)

PROPER SHIPPING NAME.....: Isopropanol
HAZARD CLASS DIVISION NUMBER...: 3
UN NUMBER.....: UN1219
SUBSIDIARY RISK.....: None
PACKING GROUP.....: II
HAZARD LABEL(s).....: Flammable Liquid
RADIOACTIVE?.....: Non-Radioactive
PASSENGER AIR - MAX. QTY.: 5 L
PASSENGER PACKING INSTRUCTION...: 305
CARGO AIR - MAX. QTY.: 60 L
CARGO AIR PACKING INSTRUCTION...: 307

15. REGULATORY INFORMATION:

OSHA STATUS.....: This product is hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200.
TSCA STATUS.....: On TSCA Inventory
CERCLA REPORTABLE QUANTITY...: None
SARA TITLE III:
SECTION 302 EXTREMELY
HAZARDOUS SUBSTANCES...: None
SECTION 311/312
HAZARD CATEGORIES.....: Immediate Health Hazard; Fire Hazard
SECTION 313
TOXIC CHEMICALS.....: None
RCRA STATUS.....: When discarded in its purchased form, this product meets the criteria of ignitability, and should be managed as a hazardous waste (EPA Hazardous Waste Number D001). (40 CFR 261.20-24) (FP=54 F)

The following chemicals are specifically listed by individual states; other product specific health and safety data in other sections of the MSDS may also be applicable for state requirements. For details on your regulatory requirements you should contact the appropriate agency in your state.

COMPONENT NAME /CAS NUMBER	CONCENTRATION	STATE CODE
Isopropanol 67-63-0	60-70 %	PA1, MA, NJ2, NJ3
Water 7732-18-5	30-40 %	PA3, NJ4

MA = Massachusetts Hazardous Substance List
 NJ2 = New Jersey Environmental Hazardous Substance List
 NJ3 = New Jersey Special Health Hazardous Substance List
 NJ4 = New Jersey Other - included in 5 predominant ingredients > 1%
 PA1 = Pennsylvania Hazardous Substance List
 PA3 = Pennsylvania Non-hazardous present at 3% or greater.

16. OTHER INFORMATION:

HMIS RATINGS: Health Flammability Reactivity Personal Prot
 1 3 0 B
 0=Minimal 1=Slight 2=Moderate 3=Serious 4=Severe
 B=Safety Glasses, Gloves

Agfa's method of hazard communication is comprised of Product Labels and Material Safety Data Sheets. HMIS ratings are provided by Agfa as a customer service.

REASON FOR ISSUE.....: Reviewed, Harmonized
 PREPARED BY.....: R. Ruppel-Kerr
 APPROVED BY.....: M. Patrick
 APPROVAL DATE.....: 02/27/2003
 SUPERSEDES DATE.....: 07/14/1998
 MSDS NUMBER.....: 34512

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