

Material Safety Data Sheet

May be used to comply with
 OSHA's Hazard Communication Standard
 29 CFR 1910.1200. Standard must be
 consulted for specific requirements.



Product Identity – Section I

Product Name: **Print Cleaner R-105**
 CAS #: See Below
 Manufacturer: Arcal Chemicals, Inc.
 Address: 223 Westhampton Avenue
 Capitol Heights, MD 20743

Emergency Tele: (800) 424-9300
 Revision Date: December 11, 2001
 Other Tele: (301) 336-9300 or
 (888) 336-9303
 Fax: (301) 336-6597

HAZARDOUS INGREDIENTS / OTHER COMPONENTS – SECTION II

MATERIAL / CAS #	ACGIH (TLV – TWA)	OSHA (PEL -TWA)
Aromatic hydrocarbons (not listed specifically)	N.E.	335 ppm
Chlorinated hydrocarbon CAS# 71-55-6	350 ppm	350 ppm
2 Ethoxy-ethyl-acetate CAS# 111-15-9	5 ppm	5 ppm

PHYSICAL DATA – SECTION III

APPEARANCE : Clear Solution	ODOR: sweet solvent odor	MELT POINT: N/A	SPECIFIC GRAVITY: 1.08
VAPOR DENSITY: 4.6 Air=1	% VOLATILE BY VOLUME: 100%	BULK DENSITY: N/A	BOILING POINT: 180-220 F
VAPOR PRESSURE: 100 mmHG @20C	% SOLUBILITY (H2O): Negligible		

FIRE AND EXPLOSION HAZARD DATA – SECTION IV

FLASH POINT: >130 F	<table border="1"> <thead> <tr> <th colspan="2">NFPA FIRE HAZARDS</th> </tr> </thead> <tbody> <tr> <td>HEALTH</td> <td style="text-align: center;">2</td> </tr> <tr> <td>FLAMMABILITY</td> <td style="text-align: center;">1</td> </tr> <tr> <td>REACTIVITY</td> <td style="text-align: center;">0</td> </tr> <tr> <td>SPECIFIC</td> <td></td> </tr> </tbody> </table>	NFPA FIRE HAZARDS		HEALTH	2	FLAMMABILITY	1	REACTIVITY	0	SPECIFIC	
NFPA FIRE HAZARDS											
HEALTH		2									
FLAMMABILITY		1									
REACTIVITY		0									
SPECIFIC											
FLAMMABLE LIMITS LEL: 7.5 % UEL: 15%											
EXTINGUISHING MEDIA: CO ₂ , foam											
SPECIAL FIRE FIGHTING PROCEDURES: Overall cover of personnel if vapors of product are encountered.											
UNUSUAL FIRE AND EXPLOSION HAZARDS: See Below DECOMPOSITION PRODUCTS UNDER FIRE CONDITIONS: Hydrogen Chloride EMPTY CONTAINER WARNING: Empty containers retain hazardous residue. Keep away from alkaline material, metals and oxidizing agents. Rinse with water used for dilution.											
4 = EXTREME 3 = HIGH 2 = MODERATE 1 = SLIGHT 0 = INSIGNIFICANT											

REACTIVITY DATA – SECTION V

Print Cleaner R-105

Stability: Stable & polymerization will not occur

CONDITIONS TO AVOID: None known

INCOMPATIBILITY (MATERIAL TO AVOID): Avoid contact with alkaline material and metals.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Hydrogen Chloride, CO, CO2 with incomplete combustion.

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID: None known

HEALTH HAZARD DATA – SECTION VI

Route(s) of Entry:	Inhalation? Yes	Skin? Yes	Ingestion? Yes
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Health Hazards (Acute and Chronic): Irritation and burns on skin and eyes. Irritation of respiratory tract and mucous membranes.

CARCINOGENICITY: Evidence of Leukemia clusters of children associated with ingestion from water supply contaminated with high levels of this chemical.

MEDICAL CONDITIONS GENERALLY AGGRAVATED by EXPOSURE: Skin and eye irritation or burn, respiratory tract & mucous membrane irritation and other lung conditions.

EMERGENCY AND FIRST AID PROCEDURES

EYE CONTACT: If splashed into eyes, rinse eyes with large amounts of water for at least 15 minutes or until irritation subsides. If irritation persists, call a physician

SKIN CONTACT: In case of skin contact, remove any contaminated clothing, wash skin thoroughly with soap and water; flush exposed area with large quantities of water and get medical attention.

INHALATION: If overcome by vapors, remove from exposure and call a physician immediately. If breathing is irregular or has stopped, start resuscitation, administer oxygen if available. Seek immediate medical attention.

INGESTION: If ingested, DO NOT induce vomiting; call a physician immediately.

PRECAUTIONS FOR SAFE HANDLING AND USE – SECTION VII

Steps to be taken in case material is released or spilled: Flush small amounts to drain. Impound and treat large amounts with alkaline material.

Waste Disposal Method: Adjust pH, then dispose in accordance with federal, state and local regulations.

Precautions to be taken in handling and storing: Store in cool, well ventilated area. Keep containers closed when not in use. Separate from oxidizing agents and alkalis. Avoid prolonged and repeated contact with skin.

CONTROL MEASURES – SECTION VIII

Respiratory or breathing apparatus: Respirator rated for acid fumes.

Ventilation: Yes	Local Exhaust:	Special:
	Mechanical: General air dilution	Other:

Protective Gloves: Chemical resistant/rubber **Eye Protection:** Face shield or goggles

Other Protective Clothing or Equipment: Chemical resistant apron, boots and other protective gear.

TRANSPORTATION INFORMATION

Not regulated when shipped by ground methods within the continental United States in containers less than 109 gallons by DOT Exemption 49 CFR 173.150 for Combustible Petroleum mixtures

For Air, Sea, International, or Bulk Shipments:

SHIPPING NAME: Petroleum Products, n.o.s. **HAZARDOUS CLASS:** 3, Flammable **ID NUMBER:** UN1268 PG: III