

MATERIAL SAFETY DATA SHEET

ADAMS SOLVENT CLEANER (AEROSOL)

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

TRADE NAME: ADAMS SOLVENT CLEANER (AEROSOL)

PART No.: APA130CC

UN/NA (PIN) No.: UN1950

APPLICATIONS: Cleaner

EMERGENCY TELEPHONE: Info Trac - (800) 535-5053

SUPPLIER: Chemtool Incorporated
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P.O. Box 538
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2. COMPOSITION, INFORMATION ON INGREDIENTS

INGREDIENT NAME:	CAS No.:	CONTENTS :	EPA RQ:	TPQ:
TRICHLOROETHYLENE	79-01-6	70-100 %	100 lbs	N/A
CARBON DIOXIDE	124-38-9	1-5 %	N/A	N/A

COMPOSITION COMMENTS:

Refer to section eight for exposure limits on ingredients.
Chemical ingredients not regulated by OSHA or SARA are treated confidentially.

3. HAZARDS IDENTIFICATION

Irritating to eyes, respiratory system and skin. Highly flammable.

ACUTE EFFECTS:

HEALTH HAZARDS, GENERAL:

Prolonged and repeated contact with solvents over a long period may lead to permanent health problems.

CHRONIC EFFECTS:

SENSITIZATION:

No known information.

CARCINOGENICITY:

IARC Animal Carcinogen List. NTP: Not listed. OSHA: Not regulated.

* IARC (International Agency for Research on Cancer)

* OSHA (Occupational Safety and Health Administration)

* NTP (National Toxicology Program)

REPRODUCTION/TERATOGENICITY:

No data available to indicate product or any components contained at greater than 0.1% may cause birth defects.

HEALTH WARNINGS:

INHALATION. The solvent vapors can be harmful and cause headache, nausea and intoxication. Prolonged inhalation of large concentrations can damage the respiratory system. **SKIN CONTACT.** Slightly irritating. Repeated or prolonged contact can result in drying of the skin. **EYE CONTACT.** Irritating. **INGESTION.** Since the quantity in an aerosol can is limited, and the product is hard to ingest, the toxicity risk is deemed to be small. Can cause stomach ache and vomiting. **ACUTE:** Eye and skin irritant. **CHRONIC:** Liver and kidney disease. Skin irritation and dermatitis. Can cause central nervous system effects, irregular heartbeat and possible death if too much is inhaled. Deliberate concentration and inhalation of contents may be harmful or fatal. Can elevate carboxyhemoglobin levels following exposure.

ROUTE OF ENTRY:

Inhalation. Skin and/or eye contact. Ingestion. Skin absorption.

TARGET ORGANS:

Kidneys. Liver.

4. FIRST AID MEASURES

- INHALATION:** Remove victim immediately from source of exposure. Move the exposed person to fresh air at once. For breathing difficulties oxygen may be necessary. If breathing stops, provide artificial respiration. Get medical attention.
- INGESTION:** DO NOT INDUCE VOMITING! Get medical attention immediately!
- SKIN:** Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues.
- EYES:** Rinse the eye with water immediately. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

5. FIRE FIGHTING MEASURES

FLAMMABILITY LIMIT - LOWER(%): 7.8
FLAMMABILITY LIMIT - UPPER(%): 52

EXTINGUISHING MEDIA:

Use: Foam. Carbon dioxide (CO₂). Dry chemicals, sand, dolomite etc.

SPECIAL FIRE FIGHTING PROCEDURES:

Use water to keep fire exposed containers cool and disperse vapors. Water spray may be used to flush spills away from exposures and dilute spills to non-flammable mixtures. Avoid water in straight hose stream; will scatter and spread fire. Keep run-off water out of sewers and water sources. Dike for water control. Use special protective clothing. Regular protection may not be safe. Prevent inhalation of fumes and gases.

UNUSUAL FIRE & EXPLOSION HAZARDS:

Volume and pressure increases strongly when heated. Risk of container explosion in fire. Explosion risk when heated. Aerosol cans may explode in case of fire.

HAZARDOUS COMBUSTION PRODUCTS:

Acrid smoke/fumes. Oxides of: Carbon. Chlorine. Hydrocarbons.

PROTECTIVE MEASURES IN CASE OF FIRE:

Should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:

Remove sources of ignition. Wear suitable eye protection. Minimize skin contact. Avoid breathing vapors; wear appropriate respirator.

PRECAUTIONS TO PROTECT THE ENVIRONMENT:

Keep product out of sewers and watercourses by diking or impounding. Advise authorities if product has entered or may enter sewers, watercourses or extensive land areas. Assure conformity with applicable government regulations.

SPILL CLEAN-UP PROCEDURES:

Carefully collect spilled material in closed containers and leave for disposal according to local regulations. Provide good ventilation. Use appropriate protective clothing. Rinse area with water. Do not let washing down water contaminate ponds or waterways.

7. HANDLING AND STORAGE**HANDLING PRECAUTIONS:**

Keep away from heat, sparks and open flame. Avoid spilling, skin and eye contact. Ventilate well, avoid breathing vapors. Use approved respirator if air contamination is above accepted level. Containers to be kept tightly closed. Eye wash and emergency shower must be available at the work place.

STORAGE PRECAUTIONS:

Keep away from heat, sparks and open flame. Aerosol cans: Protect against direct sunlight and do not subject to temperatures over 122°F. Store separated from: Acids. Oxidizing materials.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

INGREDIENT NAME:	CAS No.:	OSHA PEL:		ACGIH TLV:		OTHER:		UNITS:
		TWA:	STEL:	TWA:	STEL:	TWA:	STEL:	
TRICHLOROETHYLENE	79-01-6	50	200	50	100	N/A	N/A	ppm
CARBON DIOXIDE	124-38-9	10,000	30,000	5,000	30,000	5,000	30,000	ppm

PROTECTIVE EQUIPMENT:**ENGINEERING CONTROLS:**

Use engineering controls to reduce air contamination to permissible exposure level.

VENTILATION: No specific ventilation requirements noted, but forced ventilation may still be required if air contamination exceeds acceptable level.

RESPIRATORS: No specific recommendation made, but respiratory protection may still be required under exceptional circumstances when excessive air contamination exists.

PROTECTIVE GLOVES:

Chemical resistant gloves required for prolonged or repeated contact. Use protective gloves made of: Neoprene, nitrile, polyethylene or PVC. or latex.

EYE PROTECTION:

Wear splash-proof eye goggles to prevent any possibility of eye contact.

PROTECTIVE CLOTHING:

Wear appropriate clothing to prevent repeated or prolonged skin contact.

HYGIENIC WORK PRACTICES:

Wash at the end of each work shift and before eating, smoking and using the toilet.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE/PHYSICAL STATE:	Aerosol.	
COLOR:	Colorless.	
ODOR:	Mild (or faint). Sweet.	
SOLUBILITY DESCRIPTION:	Insoluble in water.	
BOILING POINT (°F, interval):	189	PRESSURE: 760mmHg
DENSITY/SPECIFIC GRAVITY (g/ml):	~1.44	TEMPERATURE (°F): 61

VAPOR DENSITY (air=1): >1
EVAPORATION RATE: <1 REFERENCE:BuAc=1

10. STABILITY AND REACTIVITY

STABILITY: Normally stable.

CONDITIONS TO AVOID:

Avoid contact with acids and oxidizing substances. Avoid heat, flames and other sources of ignition.

HAZARDOUS POLYMERIZATION:

Will not polymerize.

HAZARDOUS DECOMPOSITION PRODUCTS:

Oxides of: Carbon. Hydrocarbons.

11. TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION:

No experimental toxicological data on the preparation as such is available.

12. ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION:

No data on possible environmental effects have been found.

BIOACCUMULATION:

Not determined.

BIODEGRADABILITY:

Not determined.

ACUTE AQUATIC TOXICITY:

Not determined.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHODS:

Dispose of in accordance with Local Authority requirements. Confirm disposal procedures with environmental engineer and local regulations.

14. TRANSPORT INFORMATION

PROPER SHIPPING DESCRIPTION I: Consumer commodity

U.S. DOT:

UN/NA No.:

UN1950

U.S. DOT HAZARD LABEL:

No DOT label requirement noted

U.S. DOT CLASS:

ORM-D (Other Regulated Material D).

15. REGULATORY INFORMATION

REGULATORY STATUS OF INGREDIENTS:

NAME:	CAS No:	TSCA:	CERCLA:	SARA 302:	SARA 313:	DSL(CAN):
TRICHLOROETHYLENE	79-01-6	Yes	Yes	N/A	Yes	Yes
CARBON DIOXIDE	124-38-9	Yes	N/A	N/A	N/A	Yes

US FEDERAL REGULATIONS: REGULATORY STATUS:

This Product or its components, if a mixture, is subject to following regulations (Not meant to be all inclusive - selected regulations represented): TSCA: The ingredients of this product are on the TSCA Inventory. SECTION 313: This product contains toxic chemical subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR Part 372. CERCLA 302.4. SARA 311 Categories: 1: Immediate (Acute) Health Effects. 2. Delayed (Chronic) Health Effects. Canadian WHMIS Classification.

STATE REGULATIONS: STATE REGULATORY STATUS:

This product or its components, if a mixture, is subject to following regulations (Not meant to be all inclusive - selected regulations represented):. PROPOSITION 65: This product contains the following chemical(s) considered by the State of California's Safe Drinking Water and Toxic Enforcement Act of 1986 as causing cancer or reproductive toxicity, and for which warnings are now required:
TRICHLOROETHYLENE.

CANADIAN REGULATIONS: LABELS FOR SUPPLY:



REGULATORY STATUS:

This Material Safety Data Sheet has been prepared in compliance with the Controlled Product Regulations.

16. OTHER INFORMATION

NFPA HAZARD RATING:

HEALTH:	Temporary incapacitation, injury (2)
FLAMMABILITY:	Burns only if heated moderately (2).
REACTIVITY:	N/A (0).
SPECIAL HAZARD:	N/A

NPCA HMIS HEALTH:	2 Moderate Hazard
PERS. PROTECT. INDEX:	H

PREPARED BY: Stacey Lorenz

DATE: July 26, 2001

DISCLAIMER:

While the information and recommendations set forth herein are believed to be accurate as of the date thereof, Chemtool Incorporated makes no warranty with respect thereto and disclaims all liability from reliance therein.