

MATERIAL SAFETY DATA SHEET

ADAMS GUIDE RAIL LUBRICANT (AEROSOL)

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

TRADE NAME: ADAMS GUIDE RAIL LUBRICANT (AEROSOL)

PART No.: APO31GC

UN/NA (PIN) No.: UN1950

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

SUPPLIER: Chemtool Incorporated
8200 Ridgefield Road
P.O. Box 538
Crystal Lake, IL 60039-0538

TELEPHONE: (815) 459-1250

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2. COMPOSITION, INFORMATION ON INGREDIENTS

INGREDIENT NAME:	CAS No.:	CONTENTS :	EPA RQ:	TPQ:
ACETONE	67-64-1	30-50 %	5 000 lbs	N/A
BUTANE	106-97-8	5-15 %	N/A	N/A
2-BUTANONE	78-93-3	10-30 %	5 000 lbs	N/A
PROPAN-2-OL	67-63-0	5-10 %	N/A	N/A
PROPANE	74-98-6	5-15 %	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

Extremely flammable.

CHRONIC EFFECTS:

SENSITIZATION:

No known information.

CARCINOGENICITY:

IARC: Not listed. NTP: Not listed. OSHA: Not regulated.

* NTP (National Toxicology Program)

* IARC (International Agency for Research on Cancer)

*OSHA (Occupational Safety and Health Administration)

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. Larger quantities can cause unconsciousness, breathing difficulty and heart failure. SKIN CONTACT. Irritating. Repeated or prolonged contact can result in drying of the skin. EYE CONTACT. Strongly irritating. INGESTION. Can cause internal injury.

ROUTE OF ENTRY:

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

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

FLASH POINT (°F):	-156	METHOD:
FLAMMABILITY LIMIT - LOWER(%):	1.9	
FLAMMABILITY LIMIT - UPPER(%):	9.5	

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.

HAZARDOUS COMBUSTION PRODUCTS:

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

PROTECTIVE MEASURES IN CASE OF FIRE:

Self-contained breathing equipment and chemical resistant clothing recommended.

6. ACCIDENTAL RELEASE MEASURES**PERSONAL PRECAUTIONS:**

Avoid breathing vapors; wear appropriate respirator. Minimize skin contact. Remove sources of ignition.

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:

Avoid spilling, skin and eye contact. Keep away from heat, sparks and open flame. 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. Store separated from: Acids. Oxidizing materials. Store at temperature below 122°F.

STORAGE CRITERIA:

Flammable compressed gas storage.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

INGREDIENT NAME:	CAS No.:	OSHA PEL:		ACGIH TLV:		OTHER:		UNITS:
		TWA:	STEL:	TWA:	STEL:	TWA:	STEL:	
ACETONE	67-64-1	750	1000	750	1000	N/A	N/A	ppm
BUTANE	106-97-8	800	N.E.	800	N.E.	800	N.E.	ppm
2-BUTANONE	78-93-3	200	300	200	300	200	300	ppm
PROPAN-2-OL	67-63-0	400	500	400	500	400	500	ppm
PROPANE	74-98-6	1000	N.E.	N.E.	N.E.	1000	N.E.	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:

For prolonged or repeated skin contact use suitable protective gloves. Use protective gloves made of: Neoprene, nitrile, polyethylene or PVC.

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:	Black.	
ODOR:	Mild (or faint). Solvent.	
SOLUBILITY DESCRIPTION:	Slightly soluble in water.	
DENSITY/SPECIFIC GRAVITY (g/ml):	~1.30	TEMPERATURE (°F): 61
VAPOR DENSITY (air=1):	~2.9	
EVAPORATION RATE:	>1.47	REFERENCE: BuAc=1
pH-VALUE, CONC. SOLUTION:	N/D	

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. Sulfur. 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

LABEL FOR CONVEYANCE:



U.S. DOT:

UN/NA No.:

U.S. DOT HAZARD LABEL:

UN1950

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):
ACETONE	67-64-1	Yes	Yes	N/A	Yes	Yes
BUTANE	106-97-8	Yes	N/A	N/A	N/A	Yes
2-BUTANONE	78-93-3	Yes	Yes	N/A	Yes	Yes
PROPAN-2-OL	67-63-0	Yes	N/A	N/A	Yes	Yes
PROPANE	74-98-6	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: 3. Fire Hazard. 4. Sudden Release of Pressure Hazard. Canadian WHMIS Classification. METHYL ETHYL KETONE, CAS# 78-93-3 at ~20%.

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 does not contain chemicals 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.

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:	Extremely flammable (4).
REACTIVITY:	Unstable if heated (1).
SPECIAL HAZARD:	N/A

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

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.