

MATERIAL SAFETY DATA SHEET

ADAMS BUFFER OIL ISO 32

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

TRADE NAME: ADAMS BUFFER OIL ISO 32

PART No.: APO20GC

APPLICATIONS: Lubricating Oil

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

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

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2. COMPOSITION, INFORMATION ON INGREDIENTS

INGREDIENT NAME:	CAS No.:	CONTENTS :	EPA RQ:	TPQ:
DISTILLATES, PETROLEUM, HYDROTREATED HEAVY PARAFFINIC	64742-54-7	70-100 %	N/A	N/A
DISTILLATES, PETROLEUM, SOLVENT-DEWAXED HEAVY PARAFFINIC PETROLEUM DISTILLATES	64742-65-0	5-10 %	N/A	N/A

COMPOSITION COMMENTS:

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

3. HAZARDS IDENTIFICATION

Exposure to vapors generated at high temperatures, may cause respiratory irritation. Concentrate may cause irritation to eyes and skin. Not regarded as a health hazard under current legislation.

CHRONIC EFFECTS:

SENSITIZATION:

No known information.

CARCINOGENICITY:

NTP: Not listed. IARC: Not listed. OSHA: Not regulated.
* IARC (International Agency for Research on Cancer)
* NTP (National Toxicology Program)
*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. Oil mist can irritate airways and lungs. Heating can generate vapors that may cause respiratory irritation, nausea and headaches. Inhalation hazard at room temperature is unlikely due to the low volatility of this product. SKIN CONTACT. Slightly irritating. Repeated or prolonged contact can result in drying of the skin. EYE CONTACT. Irritating. May cause slight eye irritation. May cause very slight transient (temporary) corneal injury. INGESTION. Can cause stomach ache and vomiting. Main hazard, if ingested, is aspiration into the lungs and subsequent pneumonitis.

ROUTE OF ENTRY:

Inhalation. Skin and/or eye contact. Ingestion.

4. FIRST AID MEASURES

- INHALATION:** Vapor inhalation under ambient conditions is normally not a problem. If overcome by vapor of hot product, immediately remove from source of exposure. Get medical attention if any discomfort continues. For breathing difficulties oxygen may be necessary.
- INGESTION:** DO NOT INDUCE VOMITING! Remove victim immediately from source of exposure. Get medical attention immediately! Never give anything by mouth to an unconscious person.
- SKIN:** Remove contaminated clothing. Wash skin thoroughly with soap and water. Contact physician if irritation persists.
- EYES:** Important! Immediately rinse with water for at least 15 minutes. Contact physician if irritation persists.

5. FIRE FIGHTING MEASURES

FLASH POINT (°F): >351 **METHOD:** Cd OC (Cleveland open cup).
FLAMMABILITY LIMIT - LOWER(%): 0.9
FLAMMABILITY LIMIT - UPPER(%): 7.0

EXTINGUISHING MEDIA:

Use: Alcohol resistant foam. Dry chemicals, sand, dolomite etc. Carbon dioxide (CO₂).

SPECIAL FIRE FIGHTING PROCEDURES:

Use water spray to keep fire exposed containers cool and disperse vapors. Water spray may be used to flush spills away from exposures. Caution should be exercised when using water or foam as frothing may occur.

UNUSUAL FIRE & EXPLOSION HAZARDS:

Pressure will increase in over heated, closed containers.

HAZARDOUS COMBUSTION PRODUCTS:

Acrid smoke/fumes. Oxides of: Carbon.

PROTECTIVE MEASURES IN CASE OF FIRE:

Self-contained breathing equipment and chemical resistant clothing recommended.

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

Minimize skin contact.

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:

Contain spill. Neutralize and absorb small amounts. Collect and return large amounts to shipping container. Rinse spill area with water.

7. HANDLING AND STORAGE

HANDLING PRECAUTIONS:

Do not reuse container. Keep lid closed when not in use. Keep away from heat, sparks and open flame. Ventilate well, avoid breathing vapors. Use approved respirator if air contamination is above accepted level. Do not store or mix with strong oxidizers. Avoid spilling, skin and eye contact. Eye wash station should be available at the work place.

STORAGE PRECAUTIONS:

Keep container closed when not in use. Keep away from heat, sparks and open flame. Store separate from strong acids and oxidizers.

STORAGE CRITERIA:

Chemical storage.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

INGREDIENT NAME:	CAS No.:	OSHA PEL:		ACGIH TLV:		OTHER:		UNITS:
		TWA:	STEL:	TWA:	STEL:	TWA:	STEL:	
DISTILLATES, PETROLEUM, HYDROTREATED HEAVY PARAFFINIC	64742-54-7	5	N.E.	5	10	N/A	N/A	mg/m3
DISTILLATES, PETROLEUM, SOLVENT-DEWAXED HEAVY PARAFFINIC PETROLEUM DISTILLATES	64742-65-0	5	N.E.	5	10	N/A	N/A	mg/m3

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:	Liquid.
COLOR:	Amber.
ODOR:	Mild (or faint). Petroleum.
SOLUBILITY DESCRIPTION:	Insoluble in water.
DENSITY/SPECIFIC GRAVITY (g/ml):	~0.88 TEMPERATURE (°F): 61
VAPOR DENSITY (air=1):	>5
VAPOR PRESSURE:	<1 mmHg TEMPERATURE (°F): 68
EVAPORATION RATE:	<1 REFERENCE:BuAc=1
pH-VALUE, CONC. SOLUTION:	N/D

10. STABILITY AND REACTIVITY

STABILITY: Normally stable.

CONDITIONS TO AVOID:
Avoid contact with acids. Strong oxidizing agents.

HAZARDOUS POLYMERIZATION:
Will not occur.

POLYMERIZATION DESCRIPTION:
Not applicable

HAZARDOUS DECOMPOSITION PRODUCTS:
Oxides of: Carbon.

11. TOXICOLOGICAL INFORMATION

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

12. ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION:
There is no ecological data on the product itself.

BIOACCUMULATION:
Not determined.

BIODEGRADABILITY:
Not determined.

ACUTE AQUATIC TOXICITY:
Not determined.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHODS:
Spilled material, unused contents and empty containers must be disposed of in accordance with local, state and federal regulations.

14. TRANSPORT INFORMATION

U.S. DOT:
U.S. DOT HAZARD LABEL: No DOT label requirement noted
U.S. DOT CLASS: Non-Hazardous (No label required).

15. REGULATORY INFORMATION

REGULATORY STATUS OF INGREDIENTS:

NAME:	CAS No:	TSCA:	CERCLA:	SARA 302:	SARA 313:	DSL(CAN):
DISTILLATES, PETROLEUM, HYDROTREATED HEAVY PARAFFINIC DISTILLATES, PETROLEUM, SOLVENT-DEWAXED HEAVY PARAFFINIC PETROLEUM DISTILLATES	64742-54-7	Yes	N/A	N/A	N/A	Yes
	64742-65-0	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 does not contain 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. SARA 311 Categories: NONE.

**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:
Cadmium <1ppm, Arsenic <1ppm, Lead <1ppm

**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:	Irritation, minor residual injury (1)
FLAMMABILITY:	Burns only if pre-heated (1).
REACTIVITY:	N/A (0).
SPECIAL HAZARD:	N/A

NPCA HMIS HEALTH:	1 Slight Hazard
PERS. PROTECT. INDEX:	B

PREPARED BY: Heather Holich

DATE: January 8, 2002

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.