

MATERIAL SAFETY DATA SHEET

Trade Name: Castrol A/C Flush
MSDS NO. 3400
Revision Date: 04/01/2002

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Trade Name: Castrol A/C Flush
Chemical Family: Refrigeration Oil
Synonyms: None
Emergency Telephone (24 hr.): CHEMTREC 1-800-424-9300
Supplier:
Technical Chemical Company, P.O. Box 139, Cleburne, Texas 76033

2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient/CAS No.	wt. %	OSHA PEL TWA	OSHA PEL Ceiling Limits	ACGIH TLV TWA	ACGIH TLV STEL
Adipic acid, bis(2-ethylhexyl) ester 103-23-1	Not Known	None Established	None Established	None Established	None Established

Contains no ingredients now known to be hazardous as defined by OSHA. Castrol is registered in the U.S. Patent and Trademark Office.

3. HAZARDS IDENTIFICATION

Emergency Overview: Caution: Harmful if swallowed. This material is irritating to skin, eyes and mucous membranes. Ingestion of this product may cause gastrointestinal distress with symptoms of nausea, vomiting, diarrhea and abdominal pain. Harmful or fatal if liquid is aspirated into lungs.

4. FIRST AID MEASURES

Eye Contact: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.
Ingestion: DO NOT INDUCE VOMITING. Give nothing by mouth. Get medical attention! If vomiting occurs, keep head lower than hips to prevent aspiration.
Inhalation: If inhaled, remove to fresh air. If not breathing give artificial respiration, preferably mouth-to-mouth. If breathing is difficult give oxygen. Get medical attention.
Skin Contact: Remove contaminated clothing and launder before reuse. Get medical attention if irritation persists. Wash with soap and water. Use skin cream for defatted areas.

5. FIRE FIGHTING MEASURES

Flammable Properties

Flash Point °F(°C): 385 F (196 C)
Flash Point Method: COC
Flammable Limits in Air - Lower (%): Not Determined
Flammable Limits in Air - Upper (%): Not Determined
Autoignition Temperature °F(°C): Not Determined
Extinguishing Media: Carbon dioxide. Dry chemical. Foam. Water fog.

Protection Of Fire-Fighters:

Special Fire-Fighting Procedures: Wear approved positive-pressure self-contained breathing apparatus and protective clothing. Do not reuse runoff from fire control methods to sewers or waterways. Closed containers may explode if exposed to extreme heat.

Hazardous Combustion Products:

Carbon Monoxide. Carbon Dioxide. Fumes and Smoke.

Aerosol Comments:

Not Applicable

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Wear appropriate protective clothing and equipment to prevent skin and eye contact.

Spill Procedures:

Wear protective equipment specified. Contain any liquid from leaking containers. Absorb spills on inert material such as perlite, vermiculite, sand or dirt. Place in double polyethylene bags. Isolate from other waste materials. Wash walking surfaces with detergent and water to reduce slipping hazard.

Environmental Precautions:

Do not allow to enter sanitary drains, sewer or surface and subsurface waters.

7. HANDLING AND STORAGE

Handling and Avoid contact with eyes. Keep containers tightly closed when not in use. Use only in a well ventilated area. Good hygienic practices

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Storage: should be observed. Work clothes should be washed separately at the end of each work day. Disposable clothing should be discarded with material. Wash thoroughly after handling. Do Not Swallow. Store at room temperature. Avoid prolonged/repeated breathing of vapors, mists or fumes.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Eyewash stations. Showers. Use local exhaust.
Eyes: Chemical goggles; also wear a face shield if splashing hazard exists.
Skin Protection: Avoid skin contact. Wear protective clothing and gloves. Rubber boots, apron and gloves.
Respiratory Protection: Respiratory protection not necessary under normal conditions of use. Ventilation is recommended if use at elevated temperatures causes vapors to occur.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear, pale yellow solution	pH Value:	Not Determined
Odor:	MILD	Vapor Density (Air=1):	12.1
Vapor Pressure:	<.01 mm Hg @ 20 C	Melting/Freezing Point:	Melting -154 F
Boiling Point (°F):	782 F	Bulk Density at 20°C:	Not Determined
Solubility in Water:	INSOLUBLE	Evaporation Rate:	Not Determined
Molecular Weight:	Mixture	Specific Gravity (H2O=1):	.9200 @ 60F
Viscosity:	Not Available	Decomposition Temperature:	Not Known
VOC Content(%):	Not determined.		

10. STABILITY AND REACTIVITY

Chemical Stability: Stable under normal conditions of handling, use and transportation.
Conditions to Avoid: High temperatures. Avoid any source of ignition.
Materials to Avoid: Strong oxidizing agents.
Hazardous Decomposition Products: Carbon monoxide. Carbon dioxide. Smoke and Fumes.
Hazardous Polymerization: Not determined.

11. TOXICOLOGICAL INFORMATION

Toxicological Data:

Ingredient/CAS No.	wt. %	Route	Species	Dose
Adipic acid, bis(2-ethylhexyl) ester 103-23-1	Not Known	Oral	Rats	9100 mg/kg

Carcinogenicity:

Ingredient/CAS No.	wt. %	IARC	NTP	OSHA
Adipic acid, bis(2-ethylhexyl) ester 103-23-1	Not Known	Group 3 (not classifiable)	Not Listed	Not Listed

12. ECOLOGICAL INFORMATION

Ecological testing has not been conducted on this product.

13. DISPOSAL CONSIDERATION

Waste Classification: This product as purchased does not fall under current U.S. EPA RCRA definitions of hazardous waste. Under RCRA it is the generator's responsibility to determine the status of the waste at the time of its disposal. This product does not contain any CERCLA regulated materials.

Waste Management: Not determined.

Disposal should be made in accordance with federal, state and local regulations.

14. TRANSPORTATION INFORMATION

Trade Name: Castrol A/C Flush **MSDS NO.** 3400

U.S. DOT:

Proper Shipping Name: Not Regulated
Hazard Class: Not Applicable
UN/NA Number: Not Applicable
DOT Packing Group: Not Applicable

IMDG:

Proper Shipping Name: Not Regulated
Hazard Class: Not Applicable
Hazard Subclass: Not Applicable
UN No.: Not Applicable
Packing Group: Not Applicable
Marine Pollutant: No

15. REGULATORY INFORMATION

US Federal Regulations:

Ingredient/CAS No.	wt. %	SARA 313	SARA 302	RQ	TPQ
Adipic acid, bis(2-ethylhexyl) ester 103-23-1	Not Known	Not Listed	Not Listed	NA	NA

Hazardous per OSHA 29 CFR 1910.1200

SARA 311/312 Hazard Categories: Immediate

State Regulations:

Ingredient/CAS No.	wt. %	California Prop. 65 Cancer list	California Prop. 65 Developmental Toxicity	California Prop. 65 Reproductive Female	California Prop. 65 Reproductive Male
Adipic acid, bis(2-ethylhexyl) ester 103-23-1	Not Known	Not Listed	Not Listed	Not Listed	Not Listed

U.S. TSCA:

The components of this product are listed on the TSCA Inventory.

16. OTHER INFORMATION

General Notes: Do not allow undiluted material or large quantities to reach groundwater, bodies of water or sewer system.

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