

MATERIAL SAFETY DATA SHEET

Trade Name: Castrol Premium AC Flush Non-Flammable 1 Gal
MSDS NO. 6644
Revision Date:
Date Printed 07/07/2005

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Trade Name: Castrol Premium AC Flush Non-Flammable 1 Gal
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 TLW STEL
n-Propyl bromide 106-94-5	95-100	Not Listed.	Not Listed.	Not Listed.	Not Listed.
Isopropyl Alcohol 67-63-0	1-5	400 ppm	Not Known	400 ppm	500 ppm
proprietary ingredient unk	1-5				

3. HAZARDS IDENTIFICATION

Emergency Overview: Caution: Aspiration hazard. May cause irritation to skin and eyes. Mist may cause respiratory tract irritation. Vapor may cause flash fire.

HMIS Classification: Health: 1 Flammability: 1 Reactivity: 0 Special: B
NFPA Rating: Health: 1 Flammability: 1 Reactivity: 0

4. FIRST AID MEASURES

Eye Contact: In case of contact, or suspected contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention immediately after flushing.
Ingestion: Aspiration hazard if swallowed - can enter lungs and cause damage. Do Not Induce Vomiting Get immediate medical attention. If vomiting occurs, keep head lower than hips to prevent aspiration. If victim is conscious and alert, give 1-2 glasses of water to drink. Never give fluids or induce vomiting if the victim is unconscious or having convulsions.
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: In case of contact, immediately flush skin with plenty of soap and water for at least 15 minutes. Get medical attention. Get medical attention if irritation persists. Wash clothing before reuse.

5. FIRE FIGHTING MEASURES

Flammable Properties
Flash Point °F(°C): None
Flash Point Method: Not Determined
Flammable Limits in Air - Lower (%): 2
Flammable Limits in Air - Upper (%): 5
Autoignition Temperature °F(°C): 400
Extinguishing Media: Alcohol foam. On small fires, dry chemical, dry sand, or CO2 may also be effective in large quantities.
Protection Of Fire-Fighters:
Special Fire-Fighting Procedures: Wear approved positive-pressure self-contained breathing apparatus and protective clothing.
Hazardous Combustion Products: Carbon Dioxide. Halogenated compounds.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Wear appropriate protective clothing and equipment to prevent skin and eye contact.
Spill Procedures: Wear protective equipment specified. Keep away from heat sparks and flames. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Collect liquid in an appropriate container or absorb with an inert material (e.g., vermiculite, dry sand, earth), and place in a chemical waste container. Do not allow any potentially contaminated water, including rain water runoff from fire fighting or spills to enter any waterway, sewer, or drain.

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Environmental Precautions: Keep away from drains.

7. HANDLING AND STORAGE

Handling and Storage: Use ground strap. Keep container closed when not in use. Avoid breathing vapors, if exposed to high vapor concentration, leave area at once. Avoid contact with skin and eyes. Use only in a well ventilated area. Wash hands before eating and smoking.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Exhaust ventilation.
Eyes: Wear safety glasses or goggles to protect against exposure.
Skin Protection: Avoid skin contact. Wear protective clothing and gloves. Use chemical resistant gloves for prolonged skin contact.
Respiratory Protection: Use in a well ventilated area. Use approved NIOSH respiratory protection if TLV exceeded..... Or over exposure is likely.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear colorless liquid.
Odor: MILD
pH Value: Not Determined
Vapor Pressure: 18.5 kPa @ 20C
Vapor Density (Air=1): >1
Boiling Point (°F): 153.9
Melting/Freezing Point: -166
Solubility in Water: Insoluble in cold water.
Bulk Density at 20°C: Not Determined
Molecular Weight: Not Determined
Specific Gravity (H2O=1): 1.23 - 1.26
Viscosity: >7 cSt (estimated)
Evaporation Rate: Not Determined
VOC Content(%): Not determined.
Decomposition Temperature: Not Known

10. STABILITY AND REACTIVITY

Chemical Stability: STABLE.
Conditions to Avoid: Avoid any source of ignition.
Materials to Avoid: Contact with oxidizing agents.
Hazardous Decomposition Products: Carbon dioxide.
Hazardous Polymerization: WILL NOT OCCUR

11. TOXICOLOGICAL INFORMATION

Toxicological Data:

Ingredient/CAS No.	wt. %	Route	Species	Dose
n-Propyl bromide 106-94-5	95-100	Inhalation	Rats	253 gm/m3/30M
Isopropyl Alcohol 67-63-0	1-5	Inhalation	Rats	LC50 16,000 ppm
proprietary ingredient unk	1-5	Inhalation	Rats	Not known.

Carcinogenicity:

Ingredient/CAS No.	wt. %	IARC	NTP	OSHA
n-Propyl bromide 106-94-5	95-100	Not Listed	Assigned to Laboratory for Toxicology/Carcinogenesis Study.	Not Listed

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Isopropyl Alcohol 67-63-0	1-5	Not Listed	Not Listed	Not Listed
proprietary ingredient unk	1-5	Not Listed	Not Listed	Not Listed

12. ECOLOGICAL INFORMATION 13. DISPOSAL CONSIDERATION

Waste Classification: Not determined.

Waste Management: Not determined.

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

14. TRANSPORTATION INFORMATION

U.S. DOT:

Proper Shipping Name: ORM-D CONSUMER COMMODITY
Hazard Class: ORM-D
UN/NA Number: Not Applicable
DOT Packing Group: Not Applicable

IMDG:

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

15. REGULATORY INFORMATION

US Federal Regulations:

Ingredient/CAS No.	wt. %	SARA 313	SARA 302	RQ	TPQ
n-Propyl bromide 106-94-5	95-100	Not Listed.	Not Listed.	Not Listed.	Not Listed.
Isopropyl Alcohol 67-63-0	1-5	Listed	Not Listed	NA	NA
proprietary ingredient unk	1-5				

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
n-Propyl bromide 106-94-5	95-100	Not Listed.	Not Listed.	Not Listed.	Not Listed.
Isopropyl Alcohol 67-63-0	1-5	Not Listed	Not Listed	Not Listed	Not Listed

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proprietary ingredient unk	1-5	Not Listed	Not Listed	Not Listed	Not Listed
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U.S. TSCA: The components of this product are listed on the TSCA Inventory.

No component of this product at levels greater than .1% is identified as a carcinogen by ACGIH or the International Agency for Research on Cancer (IARC).

16. OTHER INFORMATION

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

Disclaimer:

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