



TWIN CHEMICALS, INC.

Specifications: Twin Chem Brake and Parts Solvent 55 Gallon Drum

Appearance:	Clear
Odor:	Solvent
Boiling Point:	148°F
Vapor Density:	1.2
pH:	N/A
Flash Point:	25 F (TCC)
DOT Shipping Class:	55
Shipping Weight:	55 gal. drum 386 lbs.
Specific Gravity:	.693-.702
Solubility:	Insoluble
Reactivity:	Stable
HFIS Rating:	1-3-0
Shelf Life:	2 years
DOT Shipping Name:	FLAMMABLE LIQUID, NOS HEPTANE & METANOL), 3, UN1993, PG II
DOT Hazard Label:	Flammable Liquid (3)

Twin-Chemicals
Atlanta, Georgia

(800) 442-4958
(770) 924-6147 fax

www.twin-chemicals.com



Twin-Chem. Brake Wash is a non-chlorinated brake wash blend of fast-acting solvents that quickly removes grease, oil, brake and hydraulic fluid and other contaminants formulated to remove asbestos dust, oil, grease, brake fluid and other soils from brake parts. It may be used on any type of brake equipment, assembled or disassembled: brake drums, wheel cylinders, master cylinders, disc pads, linings, return springs, power, and all other metal brake parts (Sold in 55 gallon drums only).



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**MATERIAL SAFETY DATA SHEET
TWIN-CHEMICALS
BRAKE WASH**

**TWIN-CHEMICALS
BRAKE WASH**

HAZARD RATINGS NFPA HMIS DATA		
HEALTH	1	0= MINIMAL 1= SLIGHT
FIRE	3	2=MODERATE 3=HIGH
REACTIVITY	0	4=EXTREME

SECTION I

MANUFACTURED FOR: ADDRESS: EMERGENCY PHONE NUMBER: PHONE NUMBER FOR INFORMATION: DATE REVISED: NAME OF PREPARER:	TWIN-CHEM, INC. 6175 HICKORY FLAT HWY., Suite 110-344 CANTON, GEORGIA 30115 (800) 552-3787 (CERTS - CHEMICAL EMERGENCIES ONLY) (800) 442-4958 December 22, 2008 SALIENT CORPORATION CLIFFORD M. CANTRELL
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SECTION II HAZARDOUS INGREDIENTS/INFORMATION

INGREDIENT	CAS NO.	OSHA PEL	ACIGH TLV	OTHER STEL	% OR RNG	S K
HEPTANE	142-82-5	500 ppm	400 ppm	500 ppm	< 90	
ISOPROPANOL	67-63-0	400 ppm	400 ppm	500 ppm	< 20	
METHANOL	67-56-1	200 ppm	200 ppm	250 ppm	< 12	

NOTE: AN '*' UNDER 'SK' (SKIN) INDICATES THAT OSHA REQUIRES SKIN PROTECTION TO PREVENT OR REDUCE EXPOSURE TO THIS INGREDIENT. DOES NOT CONTAIN ANY INGREDIENTS SUBJECT TO SARA TITLE III, SECTION 313 REPORTING. INGREDIENTS.

**EPA HAZARD CATEGORIES
ACUTE HEALTH - CHRONIC HEALTH - REACTIVE**

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

Initial Boiling Point	148°F	Specific Gravity (H2O=1)	> 0.693 – 0.702
Vapor Pressure (mm Hg)	> 44	Melting Point	< -128°F
Vapor Density (Air=1)	> 1.2	Evaporation Rate (Water=1)	< 1.0
Solubility in Water:	INSOLUBLE		
Appearance and odor:	CLEAR, THIN, WATER WHITE LIQUID WITH SOLVENT ODOR.		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used):	25°F	Flammable Limits:	LEL: <u>ND</u> UEL: <u>ND</u>
Extinguishing Media:	Water may be ineffective. For small fires use dry chemical, carbon dioxide, water spray or alcohol resistant foam. For large fires use water fog or alcohol resistant foam. Water may be ineffective and result in fire spreading. Do not use straight stream of water. Cool containers with flooding quantities of water.		
Special Fire Fighting Procedures:	FIREFIGHTERS SHOULD WEAR SELF-CONTAINED BREATHING APPARATUS IN PRESSURE DEMAND, MSHA/NIOSH AND FULL PROTECTIVE CLOTHING WHEN FIGHTING FIRES INVOLVING THIS PRODUCT.		
Unusual Fire and Explosion Hazards:	Material is lighter than water and fire may be spread by the use of water. Containers may explode in the heat of fire.		

SECTION V- REACTIVITY DATA

Stability:	Stable
Incompatibility (Materials to Avoid):	Do not mix with acids or oxidizers.
Hazardous Decomposition or Byproducts:	Heat, carbon dioxide.
Hazardous Polymerization:	Will Not Occur

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BRAKE WASH**

SECTION VI- HEALTH HAZARD DATA

Route(s) of Entry: Inhalation? YES Skin? YES Ingestion? YES Eyes? YES
Health Hazards (Acute and Chronic): None known.
Carcinogenicity: NTP? NO IARC Monographs? NO OSHA Regulated? NO

Signs and Symptoms of Exposure:

INHALATION: Inhalation of high concentrations may produce central nervous system effects characterized by headache, dizziness, unconsciousness and coma. Causes irritation of respiratory system with possible difficulty in breathing. Vapors harmful. Aspiration may lead to pulmonary edema. Vapors may cause dizziness or suffocation.

INGESTION: Aspiration hazard. Causes gastrointestinal irritation with nausea, vomiting and diarrhea. Aspiration of material into lungs may cause chemical pneumonitis which may be fatal. Harmful or fatal if swallowed. Ingestion of large amounts may cause CNS depression.

SKIN CONTACT: May cause mild irritation, redness and pain due to defatting of skin.

EYE CONTACT: Causes eye irritation May cause chemical conjunctivitis and corneal damage..

Medical Conditions Generally Aggravated by Exposure: Unknown

Emergency and First Aid Procedures:

INGESTION: Do not induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Do not administer fluids to an unconscious person. Possible aspiration hazard. GET MEDICAL ATTENTION IMMEDIATELY.

INHALATION: Get medical aid immediately. Remove victim to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. DO NOT USE MOUTH-TO-MOUTH RESPIRATION.

EYE CONTACT: Immediately flush eyes in clear running water for at least 15 minutes lifting upper and lower lids periodically. GET MEDICAL ATTENTION.WITHOUT DELAY

SKIN CONTACT: Flush skin with plenty of water for 15 minutes. Remove all contaminated clothing and footwear. Wash before reusing. If irritation results and persists, GET MEDICAL ATTENTION.

SECTION VII- PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to Be Taken in Case Material is Released or Spilled:

LARGE SPILLS: NOTE: USE PROTECTIVE CLOTHING & SPARK PROOF EQUIPMENT FOR ANY CLEANUP. REMOVE ALL SOURCES OF IGNITION. PROVIDE VENTILATION. Absorb spill with inert material, (e.g., dry sand or earth) and place in a sealable container for disposal in an approved waste site. Rinse area with water.

Waste Disposal Method: DISPOSE OF WASTE IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS. WASTES OF THIS PRODUCT ARE RCRA HAZARDOUS WASTE BY CHARACTERISTIC; FLAMMABILITY.

Precautions to Be Taken in Handling and Storing: Keep container tightly closed when not in use. Keep away from sources of ignition. Store in a cool, dry well ventilated area.

Other Precautions: KEEP THIS AND ALL CHEMICALS OUT OF REACH OF CHILDREN.

SECTION VIII- Control Measures

Respiratory Protection (Specify Type): Follow OSHA respirator regulations found in 29 CFR 1910.134. If air exposure exceeds exposure limits (see section II), use NIOSH/MSA approved respirator with organic vapor cartridge.

Ventilation: As required to maintain exposure below exposure limits from section II..

Protective Gloves: Solvent resistant.

Eye Protection: Chemical goggles with side shields.

Other Protective Clothing or Equipment: As required to prevent direct skin contact. Solvent proof footwear recommended.

Work/Hygienic Practices: After use wash before eating, drinking, smoking or using toilet. Use good housekeeping practices.

SECTION IX - Additional Information

ENVIRONMENTAL

BIODEGRADABILITY: BIODEGRADABLE.

WASTE DISPOSAL METHODS: DISPOSE OF IN AN AUTHORIZED WASTE FACILITY IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

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BRAKE WASH
ADDITIONAL INFORMATION**

EMPTY CONTAINER HANDLING:

WARNING! EMPTIED CONTAINER RETAINS PRODUCT RESIDUE. OBSERVE ALL PRECAUTIONS EVEN AFTER CONTAINER IS EMPTIED. KEEP EMPTY CONTAINER CLOSED TIGHTLY.

SARA TITLE III REPORTING REQUIREMENTS

SECTION 302- EXTREMELY HAZARDOUS SUBSTANCES	REPORTING NOT REQUIRED
SECTION 304- HAZARDOUS RELEASES	REPORTING NOT REQUIRED
SECTION 311- COMMUNITY RIGHT TO KNOW (R-T-K)	REPORTING REQUIRED FOR INVENTORY ABOVE TPQ.
SECTION 312- R-T-K INVENTORY DATA	REPORTING REQUIRED FOR INVENTORY ABOVE TPQ.
SECTION 313- EMISSIONS AND RELEASE	REPORTING NOT REQUIRED
CERCLA	SAME AS SECTION 304

REFERENCES

TOXIC SUBSTANCE CONTROL ACT LIST (TSCA) - INGREDIENTS LISTED.

PERMISSIBLE EXPOSURE REFERENCES:

**REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES
TITLE 29 CODE OF FEDERAL REGULATIONS
NATIONAL TOXICOLOGY PROGRAM (NTP) REPORT ON CARCINOGENS
INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC) MONOGRAPHS**

REGULATORY STANDARDS:

**DOT TITLE 49 CODE OF FEDERAL REGULATIONS 172.101
SARA TITLE III
NUCLEAR REGULATORY AGENCY**

DOT SHIPPING NAME: FLAMMABLE LIQUID, N.O.S., (CONTAINS HEPTANE, ISOPROPNOL) 3, UN1993, PG II

DOT HAZARD LABEL: FLAMMABLE LIQUID (3)

This document complies with O.S.H. A. requirements under 29CFR 1910.1200

THE INFORMATION CONTAINED HEREIN is believed to be accurate but is not warranted to be so. Users are advised to confirm in advance of need that information is current, applicable and suited to the circumstances of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed.