

MATERIAL SAFETY DATA SHEET

Bus
Garage

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**** DRAFT COPY -- FOR EVALUATION USE ONLY ****

PRODUCT NAME : BRAKE CLEANER
IDENTIFICATION NUMBER: A-1048 32 FL OZ DATE PRINTED: 10/18/10
PRODUCT USE/CLASS : BRAKE CLEANER

MANUFACTURED FOR: FOR PRODUCT TEST SAMPLE ONLY
DO NOT USE FOR ANY OTHER CODED PRODUCT THAT IS DIFFERENT FROM ABOVE LISTED IDENTIFICATION NUMBER.
MANUFACTURED BY: AMERICAN JETWAY CORPORATION
34136 MYRTLE STREET
WAYNE, MICHIGAN 48184-0126

EMERGENCY TELEPHONE: EMERGENCY AGENCY: CHEMTREC
1-800-424-9300 (24 HOURS)

PREPARER: CUSTOMER SERVICE, PHONE: , PREPARE DATE: 10/18/10

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

ITEM	CHEMICAL NAME	CAS NUMBER	WEIGHT %
01	TETRACHLOROETHYLENE	127-18-4	100-110

ITEM	EXPOSURE LIMITS				COMPANY	SKIN
	ACGIH TLV-TWA	ACGIH TLV-STEL	OSHA PEL-TWA	OSHA PEL-CEILING		
01	25 PPM	100 PPM	25 PPM	200 PPM	N.E.	NO

(See Section 16 for abbreviation legend)

SECTION 3 - HAZARDS IDENTIFICATION

*** EMERGENCY OVERVIEW ***: NOTE TO PHYSICIAN: Do not administer adrenaline or epinephrine to a victim of chlorinated solvent poisoning.

EFFECTS OF OVEREXPOSURE - EYE CONTACT: Causes irritation, redness, and

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SECTION 3 - HAZARDS IDENTIFICATION

pain

EFFECTS OF OVEREXPOSURE - SKIN CONTACT: Causes irritation to skin. Symptoms include redness, itching, and pain. May be absorbed through the skin with possible systemic effects.

EFFECTS OF OVEREXPOSURE - INHALATION: Prolonged inhalation may be harmful. Irritating to the upper respiratory tract. Giddiness, headache, intoxication, nausea and vomiting may follow the inhalation of large amounts while massive amounts can cause breathing arrest, liver and kidney damage, and death. Concentrations of 600 ppm and more can affect the central nervous system after a few minutes.

EFFECTS OF OVEREXPOSURE - INGESTION: No Information.

EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS: Suspect cancer hazard based on animal data- risk of cancer depends on duration and level of exposure. Overexposure may cause nervous system damage. Overexposure may cause kidney damage. May cause liver damage. Combination of alcohol and hypoxia (due to high altitude and/or low blood oxygen) in combination with exposure to perchloroethylene may cause cardiovascular effects.

PRIMARY ROUTE(S) OF ENTRY: SKIN CONTACT INHALATION INGESTION EYE CONTACT

SECTION 4 - FIRST AID MEASURES

FIRST AID - EYE CONTACT: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician. Holding eyelids open, flush eyes with running water for 5 minutes. Remove contact lenses if wearing and flush open eyes with running water for at least 15 minutes. Seek medical attention.

FIRST AID - SKIN CONTACT: Wash with soap and large amounts of water. Remove contaminated clothing. Get medical attention if irritation develops or persists. Remove contaminated clothing. Wash skin with soap and water. Get medical attention. Wash contaminated clothing before re-use.

FIRST AID - INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention. Rescuers should put on appropriate protective gear. Remove from area of exposure. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Keep victim warm. Get immediate medical attention.

FIRST AID - INGESTION: No Information.

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SECTION 5 - FIRE FIGHTING MEASURES

FLASH POINT: >250 F
(SETAFLASH CLOSED CUP)

LOWER EXPLOSIVE LIMIT: N.A.
UPPER EXPLOSIVE LIMIT: N.A.

AUTOIGNITION TEMPERATURE: N.D.

EXTINGUISHING MEDIA: CO2 DRY CHEMICAL WATER FOG

UNUSUAL FIRE AND EXPLOSION HAZARDS: Not considered to be fire hazard, but becomes hazardous in fire situation because of vapor generation and possible degradation to phosgene (highly toxic) and hydrogen chloride (corrosive). Vapors are heavier than air and collect in low-lying areas.

SPECIAL FIREFIGHTING PROCEDURES: Containers can build up pressure if exposed to heat (fire). As in any fire, wear self-contained breathing apparatus pressure-demand (MSHA/NIOSH approved or equivalent) and full protective gear.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container. Avoid runoff into storm sewers and ditches which lead to waterways. Wear appropriate personal protective equipment for chlorinated solvent spills. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Contain and recover liquid when possible. Absorb with inert material and place in chemical waste container. Do not use combustible materials. Do not flush to sewer or let enter waterways. US regulations (CERCLA) require reporting spills and releases to soil, water and air in excess of reportable quantities (RQ).

SECTION 7 - HANDLING AND STORAGE

AEROSOL LEVEL:N.A.N/A

HANDLING: Wash thoroughly after handling.

STORAGE: Keep from freezing. KEEP OUT OF THE REACH OF CHILDREN!

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: No Information.

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SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

RESPIRATORY PROTECTION: A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

SKIN PROTECTION: Impervious gloves should be used.

EYE PROTECTION: Wear safety glasses with side shields (or goggles) and a face shield.

OTHER PROTECTIVE EQUIPMENT: STANDARD INDUSTRIAL CLOTHING STANDARDS SHOULD BE FOLLOWED.

HYGIENIC PRACTICES: Wash hands before eating. Remove contaminated clothing and wash before reuse. Use only in a well ventilated area. Follow all MSDS/label precautions even after container is emptied because they may retain product residues. Avoid prolonged or repeated contact with skin. Avoid breathing vapors from heated material. Avoid contact with eyes, skin, and clothing.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES
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BOILING RANGE	: 250 - 254 F	VAPOR DENSITY	: Is heavier than air
ODOR	: SOLVENT	ODOR THRESHOLD	: N.D.
APPEARANCE	: CLEAR	EVAPORATION RATE:	Is slower than Butyl Acetate
SOLUBILITY IN H2O	: NEGLIGIBLE	SPECIFIC GRAVITY:	1.6174
FREEZE POINT	: N.D.	pH @ 0.0 %	: N.A.
VAPOR PRESSURE	: N.D.	VISCOSITY	: N.D.
PHYSICAL STATE	: LIQUID		
COEFFICIENT OF WATER/OIL DISTRIBUTION: N.D.			
VOLATILE ORGANIC COMPOUNDS (VOCs): 0.00 lbs/gal, 0 grams/ltr			

VOC, % (wt): 0.00%

(See Section 16 for abbreviation legend)

SECTION 10 - STABILITY AND REACTIVITY

CONDITIONS TO AVOID: ALL SOURCES OF IGNITION, WELDING ARCS, AND OPEN FLAMES.

INCOMPATIBILITY: AVOID CONTACT WITH STRONG OXIDIZERS.

HAZARDOUS DECOMPOSITION PRODUCTS: OXIDES OF CARBON, OXIDES OF NITROGEN,

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SECTION 10 - STABILITY AND REACTIVITY

AND MAY PRODUCE FORMS OF CHLORIDE, CHLORINE, AND PHOSGENE. SMOKE, OXIDES OF CARBON AND OXIDES OF NITROGEN, PHOSPHOROUS, AND/OR SULFUR ARE POSSIBLE.

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

STABILITY: This product is stable under normal storage conditions.

SECTION 11 - TOXICOLOGICAL PROPERTIES

PRODUCT LD50: 2629 mg/kg

PRODUCT LC50: 34200 ppm

COMPONENT TOXICOLOGICAL INFORMATION:

----- CHEMICAL NAME -----	----- LD50 -----	----- LC50 -----
TETRACHLOROETHYLENE	2629 MG/KG RAT	34200 MG/M3/8H/RAT

SECTION 12 - ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: No Information.

SECTION 13 - DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: DISPOSE IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS.

SECTION 14 - TRANSPORTATION INFORMATION

DOT PROPER SHIPPING NAME: CONSUMER COMMODITY

DOT TECHNICAL NAME:

DOT HAZARD CLASS: ORM-D

HAZARD SUBCLASS:

DOT UN/NA NUMBER:

PACKING GROUP:

RESP. GUIDE PAGE:

DOT EXEMPTIONS:

DOT SPECIAL INSTRUCTIONS:

(Continued on Page 6)

SECTION 14 - TRANSPORTATION INFORMATION

IMDG SHIPPING INFORMATION:UN1897

IMDG PROPER SHIPPING NAME: TETRACHLOROETHYLENE

IMDG TECHNICAL NAME:

IMDG HAZARD CLASS: 6.1

HAZARD SUBCLASS:

PACKING GROUP: III

FLASH POINT, C: >121.1

IMDG EXEMPTIONS: LIMITED QUANTITY

IMDG SPECIAL INSTRUCTIONS:

MARINE POLLUTANT (YES/NO): Y

IATA SHIPPING INFORMATION:UN1897

IATA PROPER SHIPPING NAME: TETRACHLOROETHYLENE

IATA TECHNICAL NAME:

IATA HAZARD CLASS: 6.1

HAZARD SUBCLASS:

PACKING GROUP: III

IATA EXEMPTIONS: LIMITED QUANTITY

IATA SPECIAL INSTRUCTIONS:

SECTION 15 - REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS: AS FOLLOWS -

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200)

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SECTION 15 - REGULATORY INFORMATION

CERCLA - SARA HAZARD CATEGORY:

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

IMMEDIATE HEALTH HAZARD CHRONIC HEALTH HAZARD

SARA SECTION 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

----- CHEMICAL NAME -----	CAS NUMBER	WT/WT % IS LESS THAN
TETRACHLOROETHYLENE	127-18-4	100-110

TOXIC SUBSTANCES CONTROL ACT:

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

----- CHEMICAL NAME -----	CAS NUMBER
No information is available.	

U.S. STATE REGULATIONS: AS FOLLOWS -

NEW JERSEY RIGHT-TO-KNOW:

The following materials are non-hazardous, but are among the top five components in this product:

----- CHEMICAL NAME -----	CAS NUMBER
No non-hazardous materials are among the top five ingredients.	

PENNSYLVANIA RIGHT-TO-KNOW:

The following non-hazardous ingredients are present in the product at greater than 3%:

----- CHEMICAL NAME -----	CAS NUMBER
No non-hazardous ingredients are present at greater than 3%.	

CALIFORNIA PROPOSITION 65:

WARNING: The chemical(s) noted below and contained in this product, are known to the state of California to cause cancer, birth defects or other reproductive harm:

----- CHEMICAL NAME -----	CAS NUMBER
TETRACHLOROETHYLENE	127-18-4

INTERNATIONAL REGULATIONS: AS FOLLOWS -

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SECTION 15 - REGULATORY INFORMATION

CANADIAN WHMIS: This MSDS has been prepared in compliance with Controlled Product Regulations except for use of the 16 headings.

CANADIAN WHMIS CLASS: No information available.

SECTION 16 - OTHER INFORMATION

HMIS RATINGS - HEALTH: 2 FLAMMABILITY: 0 REACTIVITY: 0

PREVIOUS MSDS REVISION DATE: 10/18/10

REASON FOR REVISION: NEW PRODUCT

LEGEND: N.A. - Not Applicable, N.E. - Not Established,
N.D. - Not Determined

*** THIS MSDS IS NOT FOR REPRODUCTION OR DISTRIBUTION ***
The information contained on this MSDS has been checked and should be accurate. However, it is the responsibility of the user to comply with all Federal, State, and Local laws and regulations.

<END OF MSDS>