

M A T E R I A L   S A F E T Y   D A T A   S H E E T

24-hour Emergency Phone: (800)255-3924

PRODUCT CODE: 2271

PRODUCT NAME: BRAKE SOLVE II (A/14)  
 PRODUCT CODE: 2271

H M I S   C O D E S :   H   C   F   R   P  
 2            3   0   B

W H M I S   C L A S S : Not Determined

===== SECTION I - MANUFACTURER IDENTIFICATION =====

MANUFACTURER'S NAME: ATCO International  
 ADDRESS : 2136 Kingston Court  
           Marietta, GA 30067-8902  
 INFORMATION PHONE : (770)424-7550

DATE PRINTED: 5/1/2007

PREPARED BY: MAURICIO A. AMAYA, DIRECTOR OF TECHNICAL SERVICES  
 REVISION DATE: 03/29/2005

===== SECTION II - HAZARDOUS INGREDIENTS/SARA III INFORMATION =====

| REPORTABLE COMPONENTS | CAS NUMBER | PEL     | TLV     | WEIGHT PERCENT |
|-----------------------|------------|---------|---------|----------------|
| HEPTANE               | 142-82-5   | 500ppm  | 400ppm  |                |
| ACETONE               | 67-64-1    | 1000ppm | 750ppm  |                |
| CARBON DIOXIDE        | 124-38-9   | 5000ppm | 5000ppm |                |

===== SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS =====

|                      |                           |                           |                     |
|----------------------|---------------------------|---------------------------|---------------------|
| BOILING RANGE:       | ND                        | SPECIFIC GRAVITY (H2O=1): | 0.728 (concentrate) |
| VAPOR DENSITY:       | ND                        | EVAPORATION RATE:         | ND                  |
| DENSITY:             | 6.072 lb/gl               | MATERIAL V.O.C.:          | ND                  |
| SOLUBILITY IN WATER: | None.                     | pH (Concentrate):         | NA                  |
| APPEARANCE AND ODOR: | CLEAR FORCEFUL SPRAY.     | pH (Diluted):             | NA                  |
| ODOR:                | ALIPHATIC/KETONE SOLVENT. |                           |                     |

===== SECTION IV - FIRE AND EXPLOSION HAZARD DATA =====

OSHA FLAMMABILITY CLASSIFICATION: EXTREMELY FLAMMABLE AEROSOL  
 FLASH POINT (non-aerosols): NA                      METHOD USED: FLAME PROJECTION TEST  
 FLAMMABLE LIMITS IN AIR BY VOLUME- LOWER: ND                      UPPER: ND

EXTINGUISHING MEDIA: In case of fire, use dry chemical, carbon dioxide, or "alcohol" foam. Water stream may be ineffective and may result in spreading the fire.

SPECIAL FIREFIGHTING PROCEDURES: Remove all ignition sources. Keep personnel not involved with emergency activities away and upwind of fire. Water spray may be ineffective and may cause fire to spread. Use a self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Becomes highly flammable when heated or misted. Containers may burst explosively if over-heated in fire. Do not expose aerosol containers to temperatures above 130 deg. F.

===== SECTION V - REACTIVITY DATA =====

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STABILITY: Product is stable under normal conditions.

CONDITIONS TO AVOID: Open flame, welding arcs, sparks, or high temperature.

INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizing agents.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Thermal decomposition and burning may produce carbon dioxide and carbon monoxide.

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

===== SECTION VI - HEALTH HAZARD DATA =====

PRIMARY ROUTES OF ENTRY: Inhalation   X              Eye Contact       
Skin Contact   X              Ingestion     

EXPOSURE LIMIT: Refer to Section II for PEL / TLV exposure limits.

ACUTE EFFECTS OF OVEREXPOSURE

**INHALATION:** Excessive inhalation of vapors can cause nasal & respiratory irritation, dizziness, weakness, nausea, headache, possible unconsciousness or asphyxiation.

**EYE CONTACT:** May cause a slight irritation.

**SKIN CONTACT:** May cause a slight irritation due to defatting of skin.

**SKIN ABSORPTION:** Prolonged or repeated contact with the skin may cause defatting and irritation.

**INGESTION:** Can cause irritation.

**CHRONIC EFFECTS OF OVEREXPOSURE:** Excessive inhalation may result in central nervous system effects.

**CARCINOGENICITY:** NTP CARCINOGEN:      IARC MONOGRAPHS:      OSHA REGULATED:     

**MEDICAL CONDITIONS GENERALLY AGGRAVATED BY OVEREXPOSURE:** May aggravate existing eye, skin, or upper respiratory conditions.

EMERGENCY AND FIRST AID PROCEDURES

**INHALATION:** Remove to fresh air. If breathing has stopped give artificial respiration. Get IMMEDIATE MEDICAL ATTENTION

**EYE CONTACT:** IN CASE OF CONTACT: Immediately flush eyes with plenty of water for at least 15 minutes. Consult a physician. Wash skin with soap and water.

**SKIN CONTACT:** In case of contact, immediately flush skin with soap and water. Remove contaminated clothing and wash thoroughly before reuse. If irritation occurs, consult a physician.

**INGESTION:** NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. If swallowed, DO NOT INDUCE VOMITING. Give two large glasses of water. GET MEDICAL ATTENTION IMMEDIATELY.

===== SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE =====

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:** Remove all ignition sources. Avoid breathing vapors. Shut off source of spill if it can be done

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safely. Use non-sparking tools. Absorb with inert, absorbant material and dispose of in accordance with applicable regulations. DO NOT FLUSH TO SEWER.

**WASTE DISPOSAL METHOD:** Dispose of in accordance with applicable Federal, State, and local regulations. Under RCRA regulations, it is the responsibility of the product user to determine, at the time of disposal, whether a material is hazardous. Aerosol cans, when vented to atmospheric pressure through normal use, pose no disposal hazard.

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:** Do not store above 130 deg. F. Do not puncture or incinerate containers.

**OTHER PRECAUTIONS:** Follow label instructions. KEEP OUT OF REACH OF CHILDREN. Avoid food contamination.

===== SECTION VIII - PERSONEL SAFETY MEASURES =====

**RESPIRATORY PROTECTION:** Wear an appropriate, properly-fitted respirator (NIOSH/MSHA approved) during and after application unless air monitoring demonstrates that vapor/mist levels are below applicable limits. Follow respirator manufacturer's directions for respirator use.

**VENTILATION:** Sufficient, in volume and pattern, to keep workroom concentration below current applicable OSHA safety and health requirements.

**PROTECTIVE GLOVES:** Impervious, neoprene gloves.

**EYE PROTECTION:** Safety eye protection to protect against splash of liquids and also aerosol size particles is recommended.

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:** None required.

**WORK/HYGIENIC PRACTICES:** Wash thoroughly with soap and water after handling.

===== SECTION IX - REGULATORY INFORMATION =====

**TOXIC SUBSTANCES CONTROL ACT (TSCA):** All chemical components in this product are listed on the TSCA Inventory List, or are exempt from listing.

**SARA Section 312 HAZARD CATEGORIES:** Fire Hazard X Reactivity Hazard     

Acute Health Hazard X Chronic Health Hazard      Pressure Hazard X

**SARA Section 313 REPORTABLE COMPONENTS:** (See Section II, If Applicable)

===== SECTION X - SHIPPING INFORMATION =====

**DOT SHIPPING NAME:** ORM-D Consumer Commodity

**DOT HAZARD CLASS:** Not Applicable

**UN NUMBER:** Not Applicable

**DOT PACKING GROUP:** Not Applicable

**SPECIAL SHIPPING INFORMATION:** Regulated only when offered for transportation by aircraft.

===== DISCLAIMER =====

The information on this Material Safety Data Sheet represents our current available data and best opinion as to the proper handling in use of this product under normal conditions. Any use of this product which is not in conformance with this Data Sheet or which involves using this product in combination with other materials, or processes is the sole responsibility of the user.

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DATE PRINTED: 8/27/2009

PREPARED BY: Allen Buckalew, TECHNICAL SERVICES  
 REVISION DATE: 08/27/2009

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| REPORTABLE COMPONENTS | CAS NUMBER | PEL     | TLV    | WEIGHT PERCENT |
|-----------------------|------------|---------|--------|----------------|
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===== SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS =====

|                      |                           |                           |       |
|----------------------|---------------------------|---------------------------|-------|
| BOILING RANGE:       | ND                        | SPECIFIC GRAVITY (H2O=1): | 0.728 |
| VAPOR DENSITY:       | ND                        | EVAPORATION RATE:         | ND    |
| DENSITY:             | 6.072 lb/gl               | MATERIAL V.O.C.:          | ND    |
| SOLUBILITY IN WATER: | Partially.                | pH (Concentrate):         | NA    |
| APPEARANCE AND ODOR: | CLEAR LIQUID.             | pH (Diluted):             | NA    |
| ODOR:                | ALIPHATIC/KETONE SOLVENT. |                           |       |

===== SECTION IV - FIRE AND EXPLOSION HAZARD DATA =====

OSHA FLAMMABILITY CLASSIFICATION: EXTREMELY FLAMMABLE  
 FLASH POINT (non-aerosols): 0 Deg. F            METHOD USED: NA  
 FLAMMABLE LIMITS IN AIR BY VOLUME- LOWER: ND            UPPER: ND

EXTINGUISHING MEDIA: In case of fire, use dry chemical, carbon dioxide, or "alcohol" foam. Water stream may be ineffective and may result in spreading the fire.

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===== SECTION IX - REGULATORY INFORMATION =====

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**SARA Section 312 HAZARD CATEGORIES:** Fire Hazard X Reactivity Hazard     

Acute Health Hazard X Chronic Health Hazard      Pressure Hazard X

**SARA Section 313 REPORTABLE COMPONENTS:** (See Section II, If Applicable)

===== SECTION X - SHIPPING INFORMATION =====

**DOT SHIPPING NAME:** FLAMMABLE LIQUIDS, n.o.s. (contains acetone and heptane)

**DOT HAZARD CLASS:** 3

**UN NUMBER:** UN 1993

**DOT PACKING GROUP:** II

**SPECIAL SHIPPING INFORMATION:** NA

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