MATERIAL SAFETY DATA SHEET

SECTION 1     CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MATHESON TRI-GAS, INC.                           EMERGENCY CONTACT:
959 ROUTE 46 EAST                                 CHEMTREC 1-800-424-9300
PARSIPPANY, NEW JERsey 07054-0624                INFORMATION CONTACT:

SUBSTANCE: ARGON, COMPRESSED

TRADE NAMES/SYNONYMS:
MTG MSDS 5; ARGON; UN 1006; AR; MAT01860; RTECS CF2300000

CHEMICAL FAMILY: non-metallic

CREATION DATE: Mar 07 1990
REVISION DATE: Dec 16 2002

SECTION 2     COMPOSITION, INFORMATION ON INGREDIENTS

COMPONENT: ARGON, COMPRESSED
CAS NUMBER: 7440-37-1
PERCENTAGE: 100.0

SECTION 3     HAZARDS IDENTIFICATION

NFPA RATINGS (SCALE 0-4): HEALTH=0  FIRE=0  REACTIVITY=0

EMERGENCY OVERVIEW:
COLOR: colorless
PHYSICAL FORM: gas
ODOR: odorless
MAJOR HEALTH HAZARDS: difficulty breathing
PHYSICAL HAZARDS: Containers may rupture or explode if exposed to heat.

POTENTIAL HEALTH EFFECTS:
INHALATION:
SHORT TERM EXPOSURE: nausea, vomiting, dizziness, tingling sensation, suffocation, convulsions, coma
LONG TERM EXPOSURE: no information on significant adverse effects

SKIN CONTACT:
SHORT TERM EXPOSURE: no information on significant adverse effects
LONG TERM EXPOSURE: no information is available

EYE CONTACT:
SHORT TERM EXPOSURE: no information on significant adverse effects
LONG TERM EXPOSURE: no information is available
INGESTION:
SHORT TERM EXPOSURE: ingestion of a gas is unlikely
LONG TERM EXPOSURE: no information is available

SECTION 4  FIRST AID MEASURES

INHALATION: If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. If breathing is difficult, oxygen should be administered by qualified personnel. Get immediate medical attention.

SKIN CONTACT: Wash exposed skin with soap and water.

EYE CONTACT: Flush eyes with plenty of water.

INGESTION: If a large amount is swallowed, get medical attention.

NOTE TO PHYSICIAN: For inhalation, consider oxygen.

SECTION 5  FIRE FIGHTING MEASURES

FIRE AND EXPLOSION HAZARDS: Negligible fire hazard. Pressurized containers may rupture or explode if exposed to sufficient heat.

EXTINGUISHING MEDIA: carbon dioxide, regular dry chemical

Large fires: Use regular foam or flood with fine water spray.

FIRE FIGHTING: Move container from fire area if it can be done without risk. Cool containers with water spray until well after the fire is out. Stay away from the ends of tanks. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tanks due to fire. For tank, rail car or tank truck, evacuation radius: 800 meters (1/2 mile).

SECTION 6  ACCIDENTAL RELEASE MEASURES

OCCUPATIONAL RELEASE:
Stop leak if possible without personal risk. Keep unnecessary people away, isolate hazard area and deny entry. Stay upwind and keep out of low areas.

SECTION 7  HANDLING AND STORAGE


SECTION 8  EXPOSURE CONTROLS, PERSONAL PROTECTION
EXPOSURE LIMITS:
ARGON, COMPRESSED:
ARGON:
ACGIH (simple asphyxiant)

VENTILATION: Provide local exhaust ventilation system. Ensure compliance with applicable exposure limits.

EYE PROTECTION: Eye protection not required, but recommended.

CLOTHING: Protective clothing is not required.

GLOVES: Wear appropriate chemical resistant gloves.

RESPIRATOR: Under conditions of frequent use or heavy exposure, respiratory protection may be needed. Respiratory protection is ranked in order from minimum to maximum. Consider warning properties before use.

For Unknown Concentrations or Immediately Dangerous to Life or Health - Any supplied-air respirator with full facepiece and operated in a pressure-demand or other positive-pressure mode in combination with a separate escape supply. Any self-contained breathing apparatus with a full facepiece.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: gas
COLOR: colorless
ODOR: odorless
TASTE: tasteless
MOLECULAR WEIGHT: 39.948
MOLECULAR FORMULA: AR
BOILING POINT: -303 F (-186 C)
FREEZING POINT: -308 F (-189 C)
VAPOR PRESSURE: 500 mmHg @ -190 C
VAPOR DENSITY (air=1): 1.380
SPECIFIC GRAVITY: Not applicable
DENSITY: 1.784 g/L @ 0 C
WATER SOLUBILITY: 3.36% @ 20 C
PH: Not applicable
VOLATILITY: Not applicable
ODOR THRESHOLD: Not available
EVAPORATION RATE: Not applicable
VISCOITY: 0.0225 cP @ 25 C
COEFFICIENT OF WATER/OIL DISTRIBUTION: Not applicable
SOLVENT SOLUBILITY:
Soluble: organic solvents

SECTION 10 STABILITY AND REACTIVITY

REACTIVITY: Stable at normal temperatures and pressure.
CONDITIONS TO AVOID: Protect from physical damage and heat. Containers may rupture or explode if exposed to heat.

INCOMPATIBILITIES: No data available.

HAZARDOUS DECOMPOSITION:
Thermal decomposition products: No data available.

POLYMERIZATION: Will not polymerize.

SECTION 11 TOXICOLOGICAL INFORMATION
Not available

SECTION 12 ECOLOGICAL INFORMATION
Not available

SECTION 13 DISPOSAL CONSIDERATIONS
Dispose in accordance with all applicable regulations.

SECTION 14 TRANSPORT INFORMATION
U.S. DOT 49 CFR 172.101:
PROPER SHIPPING NAME: Argon, compressed
ID NUMBER: UN1006
HAZARD CLASS OR DIVISION: 2.2
LABELING REQUIREMENTS: 2.2

CANADIAN TRANSPORTATION OF DANGEROUS GOODS:
SHIPPING NAME: Argon, compressed
ID NUMBER: UN1006
CLASSIFICATION: 2.2

SECTION 15 REGULATORY INFORMATION
U.S. REGULATIONS:
CERCLA SECTIONS 102a/103 HAZARDOUS SUBSTANCES (40 CFR 302.4): Not regulated.


SARA TITLE III SARA SECTIONS 311/312 HAZARDOUS CATEGORIES (40 CFR 370.21):
ACUTE: Yes
CHRONIC: No
FIRE: No
REACTIVE: No
SUDDEN RELEASE: Yes


STATE REGULATIONS:
California Proposition 65: Not regulated.

CANADIAN REGULATIONS:
WHMIS CLASSIFICATION: A.

NATIONAL INVENTORY STATUS:
U.S. INVENTORY (TSCA): Listed on inventory.

TSCA 12(b) EXPORT NOTIFICATION: Not listed.

CANADA INVENTORY (DSL/NDSL): Listed on inventory.

SECTION 16 OTHER INFORMATION

MSDS SUMMARY OF CHANGES
SECTION 15 REGULATORY INFORMATION

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