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SECTION 1. PRODUCT INFORMATION

NAME: Argon, Refrigerated Liquid Special Note: Except where specified, most of the data in this Material Safety Data Sheet are for gaseous Argon.

TRADE NAME AND SYNONYMS: Liquid Argon; LAR; Argon, Refrigerated Liquid (D.O.T)

APPEARANCE AND ODOR: Colorless, odorless gas. Cryogenic liquid is clear and colorless.

CHEMICAL NAME AND SYNONYMS: Liquid Argon

CAS #: 7440-37-1

DOT I.D. No.: UN 1951

DOT HAZARD CLASS: Division 2.2

CHEMICAL FORMULA: Liquid (Cryogenic) Ar

CHEMICAL FAMILY: Cryogenic Inert

ISSUE DATE AND REVISIONS: Revised December 2005

SECTION 2. HEALTH HAZARD DATA

EMERGENCY OVERVIEW: Argon is a non-flammable, inert gas which is heavier than air.

Contact with the cryogenic liquid can cause tissue freezing on dermal contact or if splashed in the eyes

Inhalation: Moderate concentrations so as to exclude an adequate supply of oxygen to the lungs causes dizziness, drowsiness and eventual unconsciousness.

Symptoms of exposure to high concentrations so as to displace the oxygen in air necessary for life may include any, all or none of the following:

- ~ Loss of balance or dizziness
- ~ Tightness in the frontal area of the forehead
- ~ Tingling in the tongue, fingertips or toes
- ~ Weakened speech leading to the inability to utter sounds
- ~ Rapid reduction in the ability to perform movements
- ~ Reduced consciousness of the surroundings
- ~ Loss of tactile sensations
- ~ Heightened mental activity

It should be recognized that it is possible that none of the above symptoms may occur in Argon asphyxia so that there are no definite warning symptoms.

TIME WEIGHTED AVERAGE EXPOSURE LIMIT: Argon is defined as a simple asphyxiant (ACGIH 2005). OSHA 2005 has no listing for Argon.

Oxygen levels should be maintained at greater than 19.5 Molar percent at normal atmospheric pressure (pO₂>148 torr).