

1-027

SCOTT SPECIALTY GASES -- ISOBUTANE IN AIR -- 6830-01-454-7674

===== Product Identification =====

Product ID: ISOBUTANE IN AIR
 MSDS Date: 07/31/1997
 FSC: 6830
 NIIN: 01-454-7674
 Status Code: A
 MSDS Number: CLCBW
 === Responsible Party ===
 Company Name: SCOTT SPECIALTY GASES
 Address: 2600 CAJON BLVD.
 City: SAN BERNARDINO
 State: CA
 ZIP: 92411
 Country: US
 Info Phone Num: 909-887-2571
 Emergency Phone Num: 909-887-2571
 CAGE: 6Y428

==== Contractor Identification ====

Company Name: SCOTT SPECIALTY GASES
 Address: 2600 CAJON BLVD.
 Box: City: SAN BERNARDINO
 State: CA
 ZIP: 92411
 Country: US
 Phone: 909-887-2571
 CAGE: 6Y428

===== Composition/Information on Ingredients =====

Ingred Name: ISOBUTANE
 CAS: 75-28-5
 RTECS #: TI4300000
 Fraction by Wt: 1-12000%PPM

Ingred Name: AIR
 Fraction by Wt: BALANCE

===== Hazards Identification =====

Reports of Carcinogenicity: NTP:NO IARC:NO OSHA:NO
 Health Hazards Acute and Chronic: MIXTURE CAN ACT AS A SIMPLE ASPHYXIAN
 T BY DISPLACING AIR NECESSARY FOR LIFE. CHRONIC EFFECTS: NONE KNOWN.
 Explanation of Carcinogenicity: NO DATA PROVIDED BY MANUFACTURER
 Effects of Overexposure: SYMPTOMS INCLUDE RAPID RESPIRATION, MUSCULAR
 INCOORDINATION, FATIGUE, DIZZINESS, NAUSEA, VOMITING,
 UNCONSCIOUSNESS, AND DEATH.
 Medical Cond Aggravated by Exposure: NONE KNOWN.

===== First Aid Measures =====

First Aid: INHALATION: IMMEDIATELY REMOVE VICTIM TO FRESH AIR. IF
 BREATHING IS DIFFICULT, GIVE OXYGEN. IF BREATHING HAS STOPPED, GIVE
 ARTIFICIAL RESPIRATION. EYE CONTACT: NONE. SKIN CONTACT: NONE.
 INGESTION: NON E. IN THE EVENT OF EXPOSURE, CONSULT A PHYSICIAN.
 NOTE TO PHYSICIAN: NONE.

===== Fire Fighting Measures =====

Flash Point:NONFLAMMABLE
 Autoignition Temp:Autoignition Temp Text:N/AP
 Extinguishing Media:USE WHAT IS APPROPRIATE FOR SURROUNDING FIRE.
 Fire Fighting Procedures:WEAR SELF-CONTAINED BREATHING APPARATUS AND
 FULL PROTECTIVE CLOTHING. KEEP FIRE EXPOSED CYLINDERS COOL WITH
 WATER SPRAY. IF POSSIBLE, STOP THE PRODUCT FLOW.
 Unusual Fire/Explosion Hazard:CYLINDER RUPTURE MAY OCCUR UNDER FIRE
 CONDITIONS. COMPRESSED AIR AT HIGH PRESSURE WILL ACCELERATE THE
 COMBUSTION OF FLAMMABLE MATERIALS.

===== Accidental Release Measures =====

Spill Release Procedures:EVACUATE AND VENTILATE AREA. REMOVE LEAKING
 CYLINDER TO EXHAUST HOOD OR SAFE OUTDOOR AREA. REMOVE ALL SOURCES
 OF IGNITION.

===== Handling and Storage =====

Handling and Storage Precautions:HANDLING: SECURE CYLINDER WHEN USING
 TO PROTECT FROM FALLING. USE SUITABLE HAND TRUCK TO MOVE CYLINDERS.
 STORAGE: STORE IN WELL VENTILATED AREAS. KEEP VALVE PROTECTION CAP
 ON CYLINDERS WHEN NOT IN USE .
 Other Precautions:PROTECT CONTAINERS FROM PHYSICAL DAMAGE. DO NOT
 DEFACE CYLINDERS OR LABELS. CYLINDERS SHOULD BE REFILLED BY
 QUALIFIED PRODUCERS OF COMPRESSED GAS. SHIPMENT OF COMPRESSED GAS
 CYLINDER WHICH HAS NOT BE EN FILLED BY THE OWNER OR WITH HIS
 WRITTEN CONSENT IS A VIOLATION OF FEDERAL LAW (49 CFR).

===== Exposure Controls/Personal Protection =====

Respiratory Protection:PROVIDE ADEQUATE GENERAL AND LOCAL EXHAUST
 VENTILATION.
 Ventilation:USE A SELF-CONTAINED BREATHING APPARATUS IN CASE OF
 EMERGENCY OR NON-ROUTINE USE.
 Protective Gloves:NONE.
 Eye Protection:SAFETY GLASSES.
 Other Protective Equipment:SAFETY SHOES WHEN HANDLING CYLINDERS.
 Work Hygienic Practices:NO DATA PROVIDED BY MANUFACTURER
 Supplemental Safety and Health
 NO DATA PROVIDED BY MANUFACTURER

===== Physical/Chemical Properties =====

HCC:G3
 Boiling Pt:B.P. Text:GAS
 Vapor Pres:N/AP
 Vapor Density:1.00-1.01(
 Spec Gravity:GAS (H20-1)
 Evaporation Rate & Reference:GAS
 Solubility in Water:V/V 17 DEG. C:0.130
 Appearance and Odor:COLORLESS, SWEET ODOR.

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES
 FLAMMABLE AND COMBUSTIBLE MATERIALS, ESPECIALLY GREASES AND OILS.
 Stability Condition to Avoid:STORAGE IN POORLY VENTILATED AREAS.
 STORAGE CONDITIONS.

Hazardous Decomposition Products:TOXIC CARBON MONOXIDE.
Conditions to Avoid Polymerization:WILL NOT OCCUR.

===== Toxicological Information =====

Toxicological Information:LETHAL CONCENTRATION (LC50): NONE
ESTABLISHED. LETHAL DOSE 50 (LD50): NOT APPLICABLE. TERATOGENICITY:
NOT APPLICABLE. REPRODUCTIVE EFFECTS: NOT APPLICABLE. MUTAGENICITY:
NOT APPLICABLE.

===== Ecological Information =====

Ecological:NO ADVERSE ECOLOGICAL EFFECTS ARE EXPECTED.

===== Disposal Considerations =====

Waste Disposal Methods:DISPOSE OF NON-REFILLABLE CYLINDERS IN
ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS. ALLOW GAS TO
VENT SLOWLY TO ATMOSPHERE IN AN UNCONFINED AREA OR EXHAUST HOOD. IF
THE CYLINDERS ARE THE REFI LLABLE TYPE, RETURN CYLINDERS TO
SUPPLIER WITH ANY VALVE OUTLET PLUGS OR CAPS SECURED AND VALVE PROT
ECTION CAPS IN PLACE.

===== MSDS Transport Information =====

Transport Information:CONCENTRATION: 1-12,000 PPM. DOT DESCRIPTION (US
ONLY): PROPER SHIPPING NAME: COMPRESSED GASES, N.O.S. HAZARD CLASS:
2.2 (NON-FLAMMABLE). IDENTIFICATION NUMBER: UN1956. REPORATBLE
QUANTITIES: NONE. LABE LING: NON-FLAMMABLE GAS. ADR/RID (EU ONLY):
CLASS 2, 1A. SPECIAL PRECAUTIONS: CYLINDERS SHOULD BE TRANSPORTED
IN A SECURE UPRIGHT POSITION IN A WELL VENTILATED TRUCK.

===== Regulatory Information =====

SARA Title III Information:SARA: THE THRESHOLD PLANNING QUANTITY FOR
THIS MIXTURE IS 10,000 LBS.

Federal Regulatory Information:TSCA: MIXTURE IS NOT LISTED IN TSCA
INVENTORY. EU NUMBER: NOT AVAILABLE. NUMBER IN ANNEX 1 OF DIR
67/548: MIXTURE IS NOT LISTED IN ANNEX 1.EU CLASSIFICATION: NOT
APPLICABLE. R: NOT AVAILABLE. S: 9-16- 33. OSHA PROCESS AFETY
MANAGEMENT: MATERIALS ARE NOT LISTED IN APPENDIX A OF 29 CFR
1910.119 AS HIGHLY HAZARDOUS CHEMICALS.

State Regulatory Information:NO DATA PROVIDED BY MANUFACTURER.

===== Other Information =====

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