

**MATERIAL SAFETY DATA SHEET**

**AERON ISOPENTANE**

**REVISION DATE: 11/28/2011**

**EMERGENCY CONTACT:** CHANNAHON PLANT (815) 424-2000  
 CHEMTREC (800) 424-9300 US, (703) 527-3887 (Collect) INTERNATIONAL

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**PRODUCT NAME:** AERON ISOPENTANE

**SECTION I PRODUCT IDENTIFICATION**

**CAS REGISTRY # :** 78-78-4  
**CHEMICAL FAMILY :** PARAFFIN SERIES HYDROCARBON  
**CHEMICAL NAME:** ISOPENTANE; 2-METHYL BUTANE  
**CHEMICAL FORMULA:** C5H12

**SECTION II HAZARDOUS COMPONENTS**

<b>INGREDIENT</b>	<b>PERCENT</b>	<b>TLV (PPM)</b>
ISOPENTANE	100	600

*\*\*\* PHYSICAL HAZARD DUE TO FLAMMABLE NATURE. FLAMMABLE WHEN COMBINED WITH AIR. \*\*\**

**SECTION III PHYSICAL DATA**

**BOILING RANGE:** +82 F                      **SPECIFIC GRAVITY (H2O = 1.00) :** 0.625  
**VAPOR PRESSURE @ 70 DEG F:** 11.6 PSIA                      **PERCENT VOLATILE BY VOLUME :** 100%  
**VAPOR DENSITY (AIR = 1.00):** 2.491                      **SOLUBILITY IN WATER @ 70 °F:** 0%  
**EVAPORATION RATE:** > 1 (ETHYL ETHER = 1.0)  
**APPEARANCE & ODOR:** CLEAR, COLORLESS LIQUID WITH SWEET PETROLEUM ODOR.

**SECTION IV FIRE AND EXPLOSION HAZARD DATA**

**FLASH POINT (METHOD) :** -60 F (ESTIMATED)  
**LOWER EXPLOSION LIMIT:** 1.4% (VOL.) GAS IN AIR  
**UPPER EXPLOSION LIMIT:** 7.6% (VOL.) GAS IN AIR  
**EXTINGUISHING MEDIA :** DRY CHEMICAL EXTINGUISHER (B-C), WATER

**SPECIAL FIRE FIGHTING PROCEDURES**

STOP THE RELEASE OF MATERIALS IF POSSIBLE. COOL THE VAPOR SPACE OF THE STORAGE CONTAINER WITH WATER SPRAY. AVOID ACCUMULATION OF UNBURNED MATERIALS. REMOVE PERSONNEL IN GENERAL AREA. OBSERVE MAXIMUM ISOLATION WHEN EXTINGUISHING FIRE. EXPANSION OF LIQUID AND CHANGE OF STATE FROM LIQUID TO VAPOR WILL ALLOW COMBUSTIBLE MIXTURE TO ENCOMPASS A LARGE AREA.

**UNUSUAL FIRE AND EXPLOSION HAZARDS**

VAPORS ARE HEAVIER THAN AIR AND MAY TRAVEL ALONG THE GROUND OR MAY BE MOVED BY VENTILATION SYSTEMS AND IGNITED BY PILOT LIGHTS, OTHER FLAMES, SPARKS, HEATERS, SMOKING, ELECTRIC MOTORS, STATIC DISCHARGE, OR OTHER IGNITION SOURCES AT LOCATIONS DISTANT FROM MATERIAL HANDLING POINT.

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**SECTION V HEALTH HAZARD DATA**

**EFFECTS OF OVEREXPOSURE**

**INGESTION-** ASPIRATION HAZARD!

**INHALATION-** INHALATION MAY PRODUCE ANESTHETIC EFFECTS AND FEELING OF EUPHORIA. PROLONGED OVEREXPOSURE CAN CAUSE RAPID BREATHING, HEADACHE, DIZZINESS, NARCOSIS, UNCONSCIOUSNESS, AND DEATH FROM ASPHYXIATION, DEPENDING ON CONCENTRATION AND TIME OF EXPOSURE.

**SKIN CONTACT-** CAN CAUSE MODERATE SKIN IRRITATION.

**EYE CONTACT-** CAN CAUSE SEVERE IRRITATION, REDNESS, TEARING, AND BLURRED VISION.

**EMERGENCY FIRST AID PROCEDURES**

**INGESTION-** DO NOT INDUCE VOMITING. CONTACT A PHYSICIAN IMMEDIATELY.

**INHALATION-** REMOVE TO FRESH AIR. IF BREATHING HAS STOPPED, RESTORE BREATHING AT ONCE. ADMINISTER OXYGEN AND GET MEDICAL HELP.

**SKIN CONTACT-** GET MEDICAL ATTENTION IF THERE IS EVIDENCE OF TISSUE DAMAGE. FLUSH AREA WITH PLENTY OF WATER. CONSULT PHYSICIAN IMMEDIATELY

**EYE CONTACT-** FOR LIQUID CONTACT, IRRIGATE WITH RUNNING WATER FOR MINIMUM OF 15 MINUTES. CONSULT PHYSICIAN IMMEDIATELY.

**SECTION VI REACTIVITY DATA**

<b>STABILITY:</b>	STABLE
<b>HAZARDOUS POLYMERIZATION:</b>	CAN NOT OCCUR
<b>INCOMPATIBILITY (MATERIALS TO AVOID):</b>	NONE
<b>HAZARDOUS DECOMPOSITION PRODUCTS:</b>	CARBON MONOXIDE, VOLATILE HYDROCARBON VAPORS
<b>CONDITIONS TO AVOID:</b>	HIGH HEAT, SPARK, AND OPEN FLAMES

**SECTION VII SPILL OR LEAK PROCEDURES**

**STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED**

CONTAIN THE SPILL. ELIMINATE SOURCES OF IGNITION. USE WATER SPRAY TO REDUCE VAPORS. FOR SMALL SPILLS, TAKE UP WITH ABSORBENT MATERIAL. IF CONFINED SPACE - USE SELF CONTAINED BREATHING APPARATUS. CONSULT LOCAL FIRE AUTHORITIES.

**WASTE DISPOSAL**

- (1) MECHANICAL RECOVERY
- (2) BURN UNDER CONTROLLED CONDITIONS.
- (3) DEPOSIT CONTAMINATED ABSORBENT IN DESIGNATED LANDFILL

**\*\* COMPLY WITH ALL STATE AND LOCAL REGULATIONS \*\***

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**SECTION VIII SPECIAL PROTECTION INFORMATION**

**RESPIRATORY PROTECTION:** NIOSH APPROVED SELF-CONTAINED BREATHING APPARATUS.  
**PROTECTIVE GLOVES:** IMPERVIOUS, INSULATED GLOVES RECOMMENDED  
**EYE PROTECTION:** FACESHIELD OR GOGGLES RECOMMENDED  
**OTHER:** IMPERVIOUS CLOTHING FOR PROLONGED OR REPEATED CONTACT

**VENTILATION**

**MECHANICAL:** PROVIDE AS NEEDED TO KEEP CONCENTRATION IN AIR BELOW TLV AND LEL  
**LOCAL EXHAUST:** CONTINUOUS VENTILATION RECOMMENDED  
**SPECIAL:** EXPLOSION PROOF FANS AND MOTORS

**SECTION IX SPECIAL PRECAUTIONS**

WATCH FOR LEAKS AND SPILLS. KEEP CONTAINERS SEALED AND STORE IN COOL, WELL-VENTILATED AREA. BOND AND GROUND DURING LIQUID TRANSFER. PROVIDE MEANS TO CONTROL LEAKS AND SPILLS. PROTECT FROM SOURCES OF IGNITION. PROHIBIT SMOKING IN AREAS OF STORAGE OR USE.

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**SECTION X MISCELLANEOUS INFORMATION**

**TRANSPORT INFORMATION**

PENTANE

3, FLAMMABLE LIQUID, UN1265, PG I  
 LABELED / PLACARDED FLAMMABLE LIQUID

**NPCA - HMIS RATINGS**

**HEALTH** 1  
**FLAMMABILITY** 4  
**REACTIVITY** 0  
**PERSONAL PROTECTION** -

(PERSONAL PROTECTION INFORMATION TO BE SUPPLIED BY THE USER)

**REGULATORY INFORMATION**

THE INGREDIENTS LISTED IN SECTION 2 ARE REPORTED/INCLUDED IN THE U.S. TSCA INVENTORY AND CANADIAN DOMESTICS SUBSTANCE LIST.