

**MATERIAL SAFETY DATA SHEET**

**AERON NIP-42**

**REVISION DATE: Mar-2009**

**EMERGENCY TELEPHONE NUMBERS:** (815) 424-2000 CHANNAHON PLANT  
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**PRODUCT NAME:** AERON NIP-42

**SECTION I PRODUCT IDENTIFICATION**

**CAS REGISTRY # :** 68476-86-8  
**CHEMICAL FAMILY :** PARAFFIN SERIES HYDROCARBON  
**CHEMICAL NAME:** Propane(18 WGT%)/Isobutane(32.8 WGT%)/n-Butane(49.2 WGT%)  
**CHEMICAL FORMULA:** C3H8 AND C4H10

**SECTION II HAZARDOUS COMPONENTS**

<b>INGREDIENT</b>	<b>PERCENT</b>	<b>TLV (PPM)</b>
LIQUEFIED PETROLEUM GAS	100	1000

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

**SECTION III PHYSICAL DATA**

**BOILING RANGE:** -2.5 TO +31.1 F      **SPECIFIC GRAVITY (H2O = 1.00) :** 0.563  
**VAPOR PRESSURE @ 70 DEG F:** 42 PSIG      **PERCENT VOLATILE BY VOLUME :** 100%  
**VAPOR DENSITY (AIR = 1.00):** 1.898      **SOLUBILITY IN WATER @ 70 °F:** 0.008%

**EVAPORATION RATE:** > 1 (ETHYL ETHER = 1.0)  
**APPEARANCE & ODOR:** CLEAR, COLORLESS LIQUEFIED GAS WITH SWEET PETROLEUM ODOR.

**SECTION IV FIRE AND EXPLOSION HAZARD DATA**

**FLASH POINT (METHOD) :** -156 F (ESTIMATED)  
**LOWER EXPLOSION LIMIT:** 1.8% (VOL.) GAS IN AIR  
**UPPER EXPLOSION LIMIT:** 9.5% (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 OF VAPOR 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-** CONTACT WITH EVAPORATING LIQUID CAN CAUSE FROSTBITE.

**EYE CONTACT-** LIQUID CAN CAUSE SEVERE IRRITATION, REDNESS, TEARING, BLURRED VISION, AND POSSIBLE FREEZE BURNS.

**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-** FOR LIQUID CONTACT, WARM AREAS GRADUALLY AND GET MEDICAL ATTENTION IF THERE IS EVIDENCE OF TISSUE DAMAGE. FLUSH AREA WITH PLENTY OF WATER.

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

**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**

AVOID SOURCES OF IGNITION - VENTILATE AREA. USE WATER FOG TO EVAPORATE OR VENTILATE. PROTECT BODY AGAINST CONTACT WITH LIQUID. IF CONFINED SPACE - USE SELF CONTAINED BREATHING APPARATUS. CONSULT LOCAL FIRE AUTHORITIES.

**WASTE DISPOSAL**

- (1) MECHANICAL RECOVERY
- (2) FLARE-OFF AT SAFE LOCATION (VAPORS)
- (3) EXHAUST TO ATMOSPHERE IN SAFE LOCATION (NO OPEN FLAMES)

**\*\* 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**

COMPLY WITH STATE AND LOCAL REGULATIONS COVERING LIQUEFIED PETROLEUM GASES.  
 COMPLY WITH NFPA PAMPHLET #58.  
 STORE SMALL CONTAINERS IN WELL-VENTILATED AREAS, AWAY FROM HEAT OR SOURCES OF IGNITION. PROHIBIT SMOKING IN AREAS OF STORAGE OR USE.

**SECTION X MISCELLANEOUS INFORMATION**

**TRANSPORT INFORMATION**

PETROLEUM GASES, LIQUEFIED

2.1, FLAMMABLE GAS, UN1075  
 LABELED / PLACARDED FLAMMABLE GAS

**NPCA - HMIS RATINGS**

<b>HEALTH</b>	<b>1</b>
<b>FLAMMABILITY</b>	<b>4</b>
<b>REACTIVITY</b>	<b>0</b>
<b>PERSONAL PROTECTION</b>	<b>-</b>

*(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.

THIS PRODUCT IS DEFINED BY OSHA IN 29 CFR 1910.1200c AS A FLAMMABLE GAS. USE OF THIS PRODUCT MAY REQUIRE COMPLIANCE WITH 29 CFR 1910.119, PROCESS SAFETY MANAGEMENT OF HIGHLY HAZARDOUS CHEMICALS.