

**SECTION 1  
CHEMICAL IDENTIFICATION OF THE SUBSTANCE/PREPARATION**

**PRODUCT NAME:** Organic Calibration Standard: 0.02 %wt/vol each of n-Hexadecane and n-Tetradecane in Hexane – also known as v-kit GCMS Autosampler Precision/Mass Ratio Standard.

**COMMON NAME OR SYNONYMS:** n-Hexane, Hexyl Hydride, Dipropyl, Normal-Hexane

**Manufacturer/Supplier**

NLG Analytical Ltd  
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**SECTION 2  
COMPOSITION/INFORMATION ON INGREDIENTS**

**HAZARDOUS**

MATERIAL:	%	TLV UNITS	CAS #	EINECS
CH <sub>3</sub> (CH <sub>2</sub> ) <sub>4</sub> CH <sub>3</sub>	~99	50 ppm TWA	[110-54-3]	203-777-6

**SECTION 3  
HAZARD IDENTIFICATION**

Warning. Extremely flammable liquid and vapor.

**SECTION 4  
FIRST AID MEASURES**

**General:** Remove contaminated clothing, wash thoroughly before reuse.

**Eyes:** Flush with water for at least 15 minutes occasionally lifting upper and lower eyelids.

**Skin:** Remove contaminated clothing and flush with water thoroughly.

**Inhalation:** Move to fresh air. Get medical attention immediately.

**Ingestion:** Get immediate medical attention immediately. If the patient is conscious, give large quantities of water. Do not induce vomiting.

**SECTION 5  
FIRE FIGHTING MEASURES**

**Flash Point:** -22C CC

**Extinguishing media:** Carbon Dioxide, foam or Dry Chemical.

**Special Hazards and Procedure:** Vapor can spread along the ground and collect in low or confined areas.

**Protective Equipment:** Wear self-contained breathing apparatus and full protective suit.

**SECTION 6  
ACCIDENTAL RELEASE MEASURES**

Ventilate area. Wear protective equipment. Do not allow to enter drainage systems or water ways. Neutralize with soda ash, limestone etc. Wipe up and put into a sealed container for proper disposal. Wash spill site with water after material pick up is complete. Wear chemical resistant glasses, gloves and clothing.

**SECTION 7  
HANDLING & STORAGE**

Ensure good ventilation/exhaustion at work place. Have an immediate availability of an eye wash in case of emergency. Store at room temperature. Keep the container tightly closed.

**SECTION 8  
EXPOSURE CONTROLS/PERSONAL PROTECTION**

**OSHA Permissible Exposure Limit (PEL):** 50 ppm (TWA);

Wear goggles, protective apron and acid resistant gloves. Use under fume hood. If exposure limit is exceeded, use MSHA/NIOSH approved respirator.

**SECTION 9  
PHYSICAL & CHEMICAL PROPERTIES**

<b>Form:</b>	Liquid
<b>Appearance &amp; odor:</b>	Transparent with gasoline-like odor
<b>% volatiles by vol. @ 21C:</b>	100
<b>Solubility:</b>	Insoluble
<b>pH:</b>	No information found
<b>Melting point:</b>	-95C
<b>Boiling Point:</b>	69C @ 760 mm/Hg
<b>Vapor Pressure (mm Hg):</b>	97 @ 20C

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## SECTION 10 STABILITY & REACTIVITY

**Stability:** Stable under normal storage and use.

**Incompatibilities:** Strong oxidizers, Dinitrogen, Tetraoxide

**Hazardous Decomposition Products:** Carbon monoxide, irritating and toxic fumes and gases, carbon dioxide.

**Hazardous Polymerization:** Will not occur.

**Conditions to Avoid:** Heat, Flames, ignition sources and incompatibles.

## SECTION 11 TOXICOLOGICAL INFORMATION

Slightly toxic by ingestion and inhalation . May be irritating to the respiratory tract and narcotic in high concentrations.

### TOXICITY DATA:

Concentrated  $\text{CH}_3(\text{CH}_2)_4\text{CH}_3$ —RTECS#-MN9275000

orl-rat LD50: 28,7100 mg/kg

## SECTION 12 ECOLOGICAL INFORMATION

Do not allow product to reach ground water, water bodies or sewage system.

## SECTION 13 DISPOSAL CONSIDERATIONS

Contact local Hazardous or Chemical waste disposal agency for regulations.

## SECTION 14 TRANSPORT INFORMATION

### Air & Ground:

CLASS 3

UN/ID # 1208

Packing Group: II

Proper Shipping Name: Hexanes

### For inner package volumes of 30 mL or less (Not to exceed outer package volume of 500 mL):

UPS and/or Domestic Shipments, ship under the "Small Quantity" rule and attach label: "this package conforms to 49CFR..."

FedEx and/or International Shipments: ship as "Excepted Quantity" attach "Excepted Quantity" label and specify UN number(s) and hazard class(es)

## SECTION 15 REGULATORY INFORMATION

**OSHA Hazards:** Flammable Liquid, Delayed target organ effects, Reproductive hazard

**TSCA Status:** On TSCA Inventory

**DSL Status:** All components of this product are on the Canadian DSL list.

**SARA 302 Components:** SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components:** n-Hexane, CAS-No. 110-54-3, Revision Date 1995-01-01

**SARA 311/312 Hazards:** Fire Hazard, Chronic Health Hazard

### Massachusetts Right To Know Components:

n-Hexane, CAS-No. 110-54-3, Revision Date 1995-01-01

### Pennsylvania Right To Know Components:

n-Hexane, CAS-No. 110-54-3, Revision Date 1995-01-01

### New Jersey Right To Know Components:

n-Hexane, CAS-No. 110-54-3, Revision Date 1995-01-01

**California Prop. 65 Components:** This product does not contain any chemicals known to State of California to cause cancer, birth, or any other reproductive defects.

## SECTION 16 OTHER INFORMATION

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### References:

The Sigma/Aldrich Library of Chemical Safety Data, Ed.I, (1985)

Registry of Toxic Effects of Chemical Substances, 1981-82

Patty's Industrial Hygiene and Toxicology, 3<sup>rd</sup> Revised Edition, Vol. 2A, 1981

Threshold Limit Values and Biological Exposure Indices for 1988-89, ACGIH

Dangerous properties of Industrial Materials by N. Irving Sax and Richard J. Lewis, Sr.(Ninth Edition) \*

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