



SEPARATION SYSTEMS, INC.
Experts in Gas Chromatography
 100 Nightingale Lane US Sales: (850) 932-1433
 Gulf Breeze, Florida 32561 Fax: (850) 934-8642
 www.separationsystems.com

Material Safety Data Sheet
Simulated Distillation Internal Standard
MSDS
SD-004

Section 1. Chemical Product Identification

Product Part Number: SD-004

Product Name: Lube Internal Standard C₁₀-C₁₂

Product Use	Simulated Distillation Internal Standard Mix
Synonym	Aliphatic Hydrocarbons C ₁₀ -C ₁₂
Chemical Name	Mixture
Chemical Family	Hydrocarbons
CAS Req. No:	Mixture, see below
For non-emergency assistance, call: (850) 932-1433	

Section 2. Hazards Identification

PRECAUTIONARY STATEMENTS

Keep away from flames and hot surfaces. Wear protective gloves and eye/face protection. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting. Store in a well-ventilated place. Keep cool. Store locked up. Dispose of contents/container through a waste management company authorized by the local government.

INHALATION

Move to fresh air.

INGESTION

Never give anything by mouth to an unconscious person. Never attempt to make an unconscious person vomit. Give large amounts of water. Contact a physician.

SKIN CONTACT

This material can cause skin irritation. Flush skin with water

EYE CONTACT

This product can cause eye irritation with short-term contact with liquid, mists or vapor. Symptoms include stinging, watering, redness, and swelling. In severe cases, permanent eye damage can result.

Section 3. Composition and Information on Ingredients

Product			
SD-004			
Substance Name	CAS #	Percent	
Mixture		100	
Composition:			
Ingredient Name	Formula	CAS #	Percent
n-Decane	C ₁₀ H ₂₂	124-18-5	33.33
n-Undecane	C ₁₁ H ₂₄	1120-21-4	33.33
n-Dodecane	C ₁₂ H ₂₆	112-40-3	33.33

Section 4. First Aid Measures

Take proper precautions to ensure your own health and safety before attempting rescue or providing first aid. For more specific information, refer to Exposure Controls and Personal Protection in Section 8 of this MSDS.

EYE EXPOSURE

Flush eyes with cool, clean, low-pressure water for at least 15 minutes. Hold eyelids apart to ensure complete irrigation of the eye and eyelid tissue. If easily accomplished, check for and remove contact lenses. If contact lenses cannot be removed, seek immediate medical attention. Do not use eye ointment. Seek medical attention.

SKIN CONTACT

Remove contaminated shoes and clothing. Flush affected area with large amounts of water. If skin surface is damaged, apply a clean dressing and seek medical attention. If skin surface is not damaged, clean affected area thoroughly with mild soap and water. Seek medical attention if tissue appears damaged or if pain or irritation persists.

INHALATION EXPOSURE

Immediately move victim to fresh air. If victim is not breathing, immediately begin rescue breathing.

INGESTION

Do not induce vomiting. If spontaneous vomiting is about to occur, place victim's head below knees. If victim is drowsy or unconscious, place on the left side with head down. Never give anything by mouth to a person who is not fully conscious. Do not leave victim unattended. Seek medical attention immediately.

Section 5: Fire Fighting Measures

FLASH POINT: 214°F

EXPLOSION LIMITS: Lower: AP 0.5%; Upper: Not established

EXTINGUISHING MEDIA

Dry chemical, foam, water spray, carbon dioxide.
 Specific methods: Fire-extinguishing work is done from the windward and the suitable fire-extinguishing method according to the surrounding situation is used. Uninvolved persons should evacuate to a safe place. In case of fire in the surroundings: Remove movable containers if safe to do so.
 Special protective equipment for firefighters: When extinguishing fire, be sure to wear personal protective equipment.

Section 6. Accidental Release Measure

Take proper precautions to ensure your own health and safety before attempting spill control or clean-up. For more specific information, refer to the Emergency Overview on Page 1, Exposure Controls and Personal Protection in Section 8 and Disposal Considerations in Section 13 of this MSDS.



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PROCEDURE(S) OF PERSONAL PRECAUTION(S)

Use extra personal protective equipment (self-contained breathing apparatus). Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Entry to noninvolved personnel should be controlled around the leakage area by roping off, etc.

METHODS FOR CLEANING UP

Absorb spilled material in a suitable absorbent (e.g. rag, dry sand, earth, saw-dust). In case of large amount of spillage, contain a spill by bunding. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

PREVENTION

Remove all sources of ignition. Fire-extinguishing devices should be prepared in case of a fire. Use spark-proof tools and explosion-proof equipment.

Section 7. Handling and Storage

HANDLING

Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent generation of vapor or mist. Keep away from flames and hot surfaces. Take measures to prevent the buildup of electrostatic charge. Use explosion-proof equipment. Wash hands and face thoroughly after handling. Use a closed system, ventilation.

STORAGE

Keep container tightly closed. Store in a cool, dark and well-ventilated place. Store locked up. Store away from incompatible materials such as oxidizing agents.

Section 8. Exposure Controls/ Personal Protection

VENTILATION

Provide ventilation or other engineering controls to keep the airborne concentrations of vapor or mists below the applicable workplace exposure limits indicated. An emergency eye wash station should be available in the near proximity to operations presenting a potential splash exposure.

PERSONAL PROTECTIVE EQUIPMENT

Respiratory: Facemask with organic vapor (specific type)

Skin: Wear Impervious gloves.

Eye: Safety glasses equipped with side shields are recommended as minimum protection in industrial settings.

GENERAL HYGIENE MEASURES

Use good personal hygiene practices. Avoid repeated and/or prolonged skin exposure. Wash hands before eating, drinking, smoking, or using toilet facilities. Do not use as a cleaning solvent on the skin. Do not use solvents or harsh abrasive skin cleaners for washing this product from exposed skin areas.

Section 9: Physical and Chemical Properties

Property	Value
Appearance	Clear liquid
pH	N/A
BP/BP Range	173 – 216°F
MP/MP Range	ND
Vapor Pressure	Negligible
Vapor Density	NDA
Density	NDA
Specific gravity	0.7
Evaporation Rate	NDA
Viscosity	N/A
Partition Coefficient	NDA
Percent volatiles	ND
Solubility (in water)	Negligible
Evaporation Rate	NDA
Flash Point	214°F

N/A = Not Applicable; ND = Not determined; NDA = No Data Available

Section 10. Stability and Reactivity

STABILITY

Stable: This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure (70°F and 760 mmHg).

Materials to Avoid: Oxidizing agents.

CONDITIONS TO AVOID

Not established.

HAZARDOUS DECOMPOSITION PRODUCTS

Not available.

HAZARDOUS POLYMERIZATION

Hazardous Polymerization: Will not occur

Section 11. Toxicological Information

ACUTE TOXICITY

No data available.

CARCINOGENICITY

No data available.

REPRODUCTIVE TOXICITY

No data available.



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Section 12. Ecological Information

ACUTE ECOTOXICITY TEST

ECOTOXICITY: Fish: No data available
 Crustacea: No data available
 Algae: No data available
 PERSISTENCE/DEGRADABILITY: No data available
 BIOACCUMULATIVE POTENTIAL(BCF): No data available
 MOBILITY IN SOIL: log Pow: No data available
 Soil adsorption (Koc): No data available
 Henry's Law constant(PaM3/mol): No data available

Section 13. Disposal Considerations

APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION

Recycle to process, if possible. Consult your local regional authorities. You may be able to burn in a chemical incinerator equipped with an afterburner and scrubber system. Observe all federal, state and local regulations when disposing of the substance.

Section 14. Transport Information

	DOT	TDG (Canada)
Proper Shipping Name	Hydrocarbons, liquids, n.o.s.	Hydrocarbons, liquids, n.o.s.
UN#	Not Listed	Not Listed
Hazard Class	Class III	Class III
Shipping Label		
Packing Group:	Group III	Group III
DOT Reportable Quantity (lbs)	Not Established	Not Applicable
Regulated Substance	Not Applicable	Not Applicable

Section 15. Other Regulatory Information

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

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

Fire Hazard, Acute Health Hazard

Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components

	CAS Number
n-Decane	124-18-5
n-Undecane	1120-21-4
n-Dodecane	112-40-3

New Jersey Right To Know Components

	CAS Number
n-Decane	124-18-5
n-Undecane	1120-21-4
n-Dodecane	112-40-3

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Section 16. Other Information

References: Not available.

Other Special Considerations: Not available.

Created: January 3rd, 2003

Last Updated: February 27th, 2015

Version: 1.1

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Separation Systems, Inc. be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Separation Systems Inc. has been advised of the possibility of such damages.