



Material Safety Data Sheet
Simulated Distillation Internal Standard Mix
SD-005

Section 1. Chemical Product Identification

Product Part Number: **SD-005**
 Product Name: **Simulated Distillation Internal Standard Mix**

Product Use	Simulated Distillation Internal Standard Calibration
Synonym	Aliphatic Hydrocarbons C14- C17
Chemical Name	Mixture
Chemical Family	Hydrocarbons
Chemical Formula	Mixture
CAS Req. No:	Mixture
Hazard Symbol	Not defined as a "Hazardous Material"
Risk Phrases	Not Regulated
For non-emergency assistance, call: (850) 932-1433	

Section 2. Hazards Identification

Slightly causes irritation in case of eye and skin contact. Inhalation causes headache, nausea, and irritation of respiratory tract. Ingestion causes burning sensation, vomiting and loss of concentration. Vapors are narcotic in high concentration

Category	NFPA Rating	HMIS Classification
Health	1	1
Flammability	1	1
Reactivity	1	1

Special: *See Section 8 for guidance in selection of personal protective equipment.

Potential Chronic Health effects: Not available

Section 3. Composition and Information on Ingredients

Substance Name				
SD-005				
Composition:				
Ingredient Name	CAS #	Formula	Percent	TLV Units
n-Tetradecane	64036-86-8	C ₁₄ H ₃₀	25	N/A
n-Pentadecane	629-62-9	C ₁₅ H ₃₂	25	N/A
n-Hexadecane	544-76-3	C ₁₆ H ₃₄	25	N/A
n-Heptadecane	629-78-7	C ₁₇ H ₃₆	25	N/A

Section 4. First Aid Measures

Inhalation: Remove to fresh air; in case of difficulty in breathing oxygen be given.
Eye Contact: Immediately flush with plenty of water for at least 15 minutes and seek medical attention if irritation persists
Skin Absorption: No significant adverse health effects are expected to occur upon short term exposure.
Skin Irritation: Wash with soap water. Seek medical attention if irritation develops
Ingestion: Do not induce vomiting unless directed by medical personnel

Section 5: Fire Fighting Measures

Flash Point: >214°F (See Fire & Explosion Hazards)
Autoignition Temperature: N/A
Flammable Limits: (% Vol. In Air): Lower N/A, Upper N/A.
Fire and Explosion Hazard Data: Slightly flammable to flammable in presence of open flames, sparks, and heat.
Extinguishing Media: Use dry chemical powder, water spray, fog, or foam. Do not use water jet.
Explosion Hazard: Risk of explosion in presence of mechanical impact – Not available; in presence of static discharge – not available.

Section 6. Accidental Release Measure

Take up with inert absorbent material, eliminate all sources of ignition. Comply fully with all applicable federal, state and local regulations for disposal.

Section 7. Handling and Storage

Precautions: Keep away from heat, sources of ignition, and incompatibles such as oxidizing agents.
Storage: Keep container tightly closed, in a dry, well-ventilated area. Keep away from oxidizers and sources of ignition.

Section 8. Exposure Controls/ Personal Protection

Controls : Provide exhaust ventilation locally to keep airborne concentrations below threshold limit value. Ensure eye wash and showers are in the proximity to work-station location.
Respiratory Protection : Face mask with organic vapor (specific type)
Skin Protection: Impervious, protective gloves



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Eye Protection: Safety glasses
Ventilation: Use only in well-ventilated area

Section 9: Physical and Chemical Properties

Property	Value
Appearance	Clear liquid; slight odor
pH	Not applicable
BP/BP Range	262°C (initial)
MP/MP Range	N/A
Volatile Characteristics	N/A
Vapor Pressure	100 @ 178°C (mmHg)
Vapor Density	6.83
Flash Point	>214°F
Explosion Limits	Lower N/A, Upper N/A
Autoignition Temperature	N/A
Specific Gravity	0.76
Solubility in Water	Negligible

Section 10. Stability and Reactivity

Hazardous Polymerization: Not expected to occur.
Stability: Stable.
Conditions to Avoid: Extreme heat and open flame, incompatibles.
Materials to Avoid: Strong acids, alkalis, and other oxidizing agents such as oxygen and liquid chlorine.
Hazardous Decomposition Products: Burning or excessive heating may produce carbon monoxide and carbon dioxide.

Section 11. Toxicological Information

LD50 and LC50 data not available. Cause slight irritation in case of eye and skin contact. Inhalation causes headache and nausea.

Section 12. Ecological Information

Acute Ecotoxicity Test: No data available
Environmental Fate: Spreads over the surface of water and will slowly evaporate; slight mobility in soil and slowly evaporates. Unlikely significant bioaccumulation and bioavailability to aquatic organisms is minimal.

Section 13. Disposal Considerations

Precautions if Material is Spilled or Released: Take up with absorbent material, eliminate all sources of ignition.
Waste disposal: Comply fully with all applicable federal, state and local regulations.

Section 14. Transport Information

DOT: Not regulated for land transport
TDG: Not regulated for land transport
IMDG: Not regulated for sea transport according to IMDG-Code
IATA: Not regulated for air transport

Section 15. Other Regulatory Information

Not covered by International regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID). Not a marine pollutant.

Section 16. Other Information

References: Not available.
Other Special Considerations: Not available.
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