

Safety Data Sheet Decane

1. Identification	
Product name:	Decane
Catalog#:	MSII932
IUPAC name:	decane
Product use restrictions:	Only for research and development use by, or directly under the supervision of, a technically qualified individual.
Company:	MetaSci Inc.
	1 Yonge St., Suite 1801
	Toronto, M5E 1W7, ON, Canada
Telephone:	(510) 429-8835
Website:	www.metasci.ca
Emergency contact number:	1-800-633-8253 United States & Canada 1-801-629-0667 International

2. Hazard Identification

GHS Classification Flammable liquids (Category 3) Aspiration hazard (Category 1)

Pictogram



Signal word Danger

Hazard statement(s) H226 H304	Flammable liquid and vapor. May be fatal if swallowed and enters airways.
Precautionary statement(s)	
P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof
	electrical/ventilating/lighting/equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P280	Wear protective gloves/protective clothing/eye



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	protection/face protection.
P301+P310	IF SWALLOWED: Immediately call a poison center or doctor.
P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P331	Do NOT induce vomiting.
P370+P378	In case of fire: Use dry sand, dry chemical, CO2, water spray or alcohol-resistant foam for extinction.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.

disposal plant.

Dispose of contents/container to an approved waste

Hazards not otherwise classified (HNOC) or not covered by GHS Repeated exposure may cause skin dryness or cracking.

3. Composition/Information on Ingredients

 Synonyms:
 No data available.

 CAS#:
 124-18-5

 Purity:
 99%

 EC#:
 204-686-4

4. First Aid Measures

P501

General information: Immediately remove any clothing contaminated by the product. Move out of dangerous area. Consult a physician and show this safety data sheet.

Inhalation: Move person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Obtain medical aid.

Skin contact: Immediately flush skin with running water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Obtain medical aid immediately. Eye contact: Immediately flush open eyes with running water for at least 15 minutes. Obtain medical aid immediately.

Ingestion: Do NOT induce vomiting without medical advice. Rinse mouth with water. Never administer anything by mouth to an unconscious person. Obtain medical aid immediately. Most important symptoms and effects, both acute and delayed: No further information available. Please see sections 2 and 11.

Indication of any immediate medical attention and special treatment needed: No further information available.

5. Fire Fighting Measures

Suitable extinguishing media: Use water spray, dry chemical, carbon dioxide, or chemical foam.

Specific hazards arising from the chemical: Carbon oxides



Advice for firefighters: As in any fire, wear a NIOSH-approved or equivalent, pressure-demand, self-contained breathing apparatus and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures: Wear protective equipment and keep unprotected personnel away. Ensure adequate ventilation. Remove all sources of ignition. Prevent further leak or spill if safe to do so. For personal protective equipment, please refer to section 8.

Environmental precautions: Do not let product enter drains, other waterways, or soil.

Methods and materials for containment and cleaning up: Prevent further leak or spill if safe to do so. Vacuum, sweep up, or absorb with inert material and place into a suitable disposal container. Consult local regulations for disposal. See section 13 for further disposal information.

7. Handling and Storage

Precautions for safe handling: Avoid contact with skin, eyes, and personal clothing. Wash hands thoroughly after handling. Avoid breathing fumes. Use only with adequate ventilation. Wear suitable protective clothing, gloves, and eye/face protection. Keep away from sources of ignition. Minimize dust generation and accumulation. Keep container tightly closed. Open and handle container with care. Do not eat, drink, or smoke while handling.

Conditions for safe storage, including any incompatibilities: Store in a tightly-closed container when not in use. Store in a cool, dry, well-ventilated area away from incompatible substances. Keep away from sources of ignition. Error, no match for Store long-term in a cool, dry place

8. Exposure Controls/Personal Protection

Exposure limits	
OSHA PEL:	No data available.
NIOSH REL:	No data available.
ACGIH TLV:	No data available.

Appropriate engineering controls: Avoid contact with skin, eyes, and clothing. Wash hands before breaks and immediately after handling the product. Facilities storing or utilizing this material should be equipped with an eyewash fountain. Use adequate general and local exhaust ventilation to keep airborne concentrations low.

Personal protection

Eyes:	Based on an evaluation of the eye or face hazards present, wear chemical splash-resistant safety glasses or goggles with side protection. A face shield may be appropriate in some workplaces.
	Use eyewear tested and approved under appropriate government standards such as OSHA 29 CFR 1910.133 or EU EN166.
Hands:	Wear gloves selected based on an evaluation of the possible hazards to hands and skin, the duration of use, the physical

Skin and body:	conditions of the workplace, and the chemical resistance and physical properties of the glove material. Protective clothing must be selected based on the hazards present in the workplace, the physical environment, the duration of exposure, and other factors. No fabric can provide protection
Chin and Dody.	against all potential hazards; therefore it is important to select the appropriate protective clothing for each specific hazard. At the minimum, wear a laboratory coat and close-toed footwear. Respirators are not a substitute for accepted engineering control measures such as enclosure or confinement of the operation,
Respiratory:	general and local ventilation, and substitution of less toxic materials. When respiratory personal protective equipment is appropriate based on an assessment of respiratory hazards in the workplace, use a NIOSH- or CEN-certified respirator.

9. Physical and Chemical Properties

Physical State:	Liquid
Molecular Formula:	C10H22
Molecular Weight:	142.28
Odor:	No data available.
pH:	No data available.
Boiling Point Range:	174°C
Freezing/Melting Point:	-30°C
Flash Point:	46°C
Evaporation Rate:	No data available.
Flammability (solid,	Please see section 2.
gas):	Flease see section 2.
Explosive limits:	No data available.
Vapor Pressure:	5.1 hPa at 37.7 °C (99.9 °F)
Vapor Density:	No data available.
Solubility:	No data available.
Relative Density:	0.735
Refractive Index:	1.4103-1.4123
Volatility:	No data available.
Auto-ignition	No data available.
temperature:	NU Uala available.
Decomposition	No data available.
Temperature:	ino dala available.
Partition Coefficient:	No data available.

10. Stability and Reactivity

Reactivity:	No data available.
Chemical stability:	Stable under recommended temperatures and pressures.
Possibility of hazardous	No data available.
reactions:	



Conditions to avoid: Incompatible materials: Hazardous decomposition products:	Dust generation. Heat. Strong oxidizing agents. Carbon oxides
11. Toxicological Information	
RTECS#:	HD6550000
Acute toxicity:	LD50 Oral: Rat - male and female - > 5,000 mg/kg;LD50 Dermal: Rabbit - male and female - > 5,000 mg/kg;LC50 Inhalation: Rat - male and female - 4 h - > 5.6 mg/l;
Routes of exposure:	Inhalation, eye contact, skin contact, ingestion.
Symptoms related to the	Skin contact may result in inflammation characterized by
physical, chemical and	itching, scaling, reddening, blistering, pain or dryness. Eye
toxicological characteristics:	contact may result in redness, pain or severe eye damage. Inhalation may cause irritation of the lungs and respiratory system. Overexposure may result in serious illness or death.
Carcinogenicity	
IARC:	Not classified.
NTP:	Not listed.
OSHA:	Not listed.
Acute toxic effects:	Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.
12. Ecological Information	
Ecotoxicity: T	oxicity to algae: static test EC50 - Pseudokirchneriella

cotoxicity:	Toxicity to algae: static test EC50 - Pseudokirchneriella
	subcapitata - > 1,000 mg/l - 72 h (OECD Test Guideline 201)
	Toxicity to daphnia and other aquatic invertebrates: static test
	EC50 - Daphnia magna (Water flea) - > 1,000 mg/l - 48 h
	Toxicity to fish: semi-static test LC50 - Oncorhynchus mykiss (rainbow trout) - > 1,000 mg/l - 96 h (OECD Test Guideline 203)

Persistence and degradability:	No data available.
Bioaccumulative	No data available.
potential: Mobility in soil:	No data available.
Other adverse effects:	No data available.

13. Disposal Considerations Disposal of waste: C

Chemical waste generators must determine whether a discarded chemical is classified as hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate



	classification. Observe all federal, state and local regulations when
	disposing of the substance.
Disposal of packaging:	Do not reuse containers. Dispose of as unused product.

14. Transportation Information

DOT (United States) UN number: Proper shipping name: Transport hazard class: Packing group:	UN2247 n-Decane 3 III
IATA UN number:	UN2247

	UNLL+/
Proper shipping name:	n-Decane
Transport hazard class:	3
Packing group:	111

15. Regulatory Information

TSCA Chemical Inventory:

This product is on the EPA Toxic Substance Control Act (TSCA) inventory. The product is supplied solely for use in research and development by or under the supervision of a technically qualified individual as defined in 40 CFR § 720 et seq. The health risks have not been fully determined. Any information that is or becomes available will be supplied on the SDS.

Canada DSL/NDSL: California Proposition 65: NFPA Rating:	This product is	listed in the Domestic Substance List (DSL).
	Health: Flammability: Instability:	No data available. No data available. No data available.

16. Additional Information

Revision Date: 08/08/2019 Printed Date: 5/30/2023

Disclaimer:

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 MetaSci 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 MetaSci has been advised of the possibility of such damages.