



MATERIAL SAFETY DATA SHEET

IONOX[®] I3400

1. COMPANY NAME AND ADDRESS:

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2. INGREDIENTS:

<u>Hazardous Components</u>	<u>CAS Number</u>	<u>Approximate %</u>
C10-C13 Isoalkanes	68551-17-7	80-100

See Section 8 for exposure limits (if applicable).

3. HAZARDS IDENTIFICATION:

EMERGENCY OVERVIEW

Clear colorless liquid. COMBUSTIBLE. Liquid can release vapors that readily form flammable mixtures at or above the flash point. Product can accumulate a static charge that may cause a fire or explosion.

Eyes: Slightly irritating.
Skin: Prolonged or repeated contact may cause skin irritation and dermatitis.
Ingestion: Low viscosity material—if swallowed may enter the lungs and cause lung damage.
Inhalation: Vapors may be mildly irritating to lungs. Over exposure may result in dizziness, headache, excitation, and central nervous system depression.

4. FIRST AID:

Eyes: Immediately flush eyes with plenty of water for 15 minutes. If irritation persists, get medical attention.
Skin: Remove contaminated clothing and shoes. Wash affected area with plenty of soap and water. Get medical attention. Wash contaminated items before reuse.
Ingestion: Do not induce vomiting! Danger from aspirating into lungs exceeds short-term toxic effects. Get medical help.
Inhalation: Remove victim from area of exposure. If unconscious, give oxygen. Give artificial respiration if not breathing. Get medical help.

Note to Physicians: Material if aspirated into the lungs may cause chemical pneumonitis.
Medical Conditions Aggravated: Conditions aggravated may include disorders of the skin, respiratory and nervous systems.

5. FIRE AND EXPLOSION HAZARD DATA:

Flash Point: ASTM D56: (TCC) 142° F (TCC) 144 ° F (PMCC)
Flammability Limits in Air: (approx. % vol. In air) – LEL: 1.1%, UEL: 6.1%
Extinguisher Media: Dry chemical, carbon dioxide, foam and water fog.
Explosion Hazards: Material is combustible. Liquid can release vapors that readily form flammable mixtures at or above the flash point. Product can accumulate a static charge that may cause a fire or explosion.
Special Fire Fighting Procedures: Water should be used to keep fire-exposed containers cool. Prevent runoff from fire control from entering streams, sewers or drinking water supply. This liquid is volatile and gives off invisible vapors. The liquid or vapor may settle in low areas or travel some distance along the ground or surface to ignition sources, where they may ignite or explode.
Combustion Products: Oxides of carbon.

6. ACCIDENTAL RELEASE MEASURES:

Small Spill: Extinguish possible sources of ignition. Evacuate all unprotected personnel and ventilate area. Only personnel equipped with proper respiratory, skin/eye protection should enter spill area. Dike area to contain spill. Pick up spill on absorbent, non-combustible material. Don't flush into sewers or natural waterways.

Large Spill: Contain material as described above and call the local fire or police department for immediate emergency assistance.

7. HANDLING AND STORAGE:

Handling: Keep product away from high energy ignition sources, heat, sparks, static electricity and open flames. Bond and ground all equipment when transferring from one vessel or container to another. This material can accumulate static charge by flow or agitation. Vapors can ignite by static discharge. Use explosion proof equipment as directed by local fire codes.

Storage: Keep containers tightly closed. Store in cool (60-80°F) ventilated area. Keep away from heat, sparks and flame.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION:

Exposure Guidelines:

<u>OSHA Hazardous Component</u>	<u>Exposure Limits</u>	
	<u>OSHA PEL, ppm</u>	<u>ACGIH TLV, ppm</u>
C10-C13 Isoalkanes	None established	None established

Respiratory Protection: Not usually needed. Use supplied-air respiratory protection in confined or enclosed spaces.

Ventilation: Use in well-ventilated area with local exhaust. Equipment must be explosion-proof.

Protective Gloves: Recommended. (Neoprene or similar)

Eye Protection: Recommended. (Glasses, goggles or face shield)

Other Protective Equipment: Eye fountain, safety shower.

Work Hygiene Practices: Do not eat, drink, or smoke when handling this material.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Boiling Point	325-408 °F	Specific Gravity	0.76 at 15.5°C
Vapor Pressure	1.5 mmHg @ 20°C (approx.)	pH:	Not applicable
Vapor Density	>3.0 (Air=1)	Appearance	Clear colorless liquid
Volatile Organic Compound (VOC):	100%	Odor	Mild hydrocarbon
EPA Method 24:	753.8 g/L	Solubility in Water	Negligible
Vapor Pressure of VOC Components	1.00 mmHg at 20 °C		

10. STABILITY AND REACTIVITY:

Stability: Stable

Hazardous Polymerization: Will not occur

Incompatibility: Strong oxidizers

Hazardous Decomposition: Combustion will result in the release of the usual decomposition products including oxides of carbon.

11. TOXICOLOGICAL INFORMATION:

Acute Toxicology: Not established.

Chronic Toxicology: Prolonged repeated skin contact may cause irritation and/or dermatitis.

Carcinogenicity: Contains no known or suspected carcinogens.

12. ECOLOGICAL INFORMATION:

Environmental Fate and Effects:

Ecotoxicity: Not established.

Mobility: Not established.

Persistence and Degradability: Not established.

Bioaccumulative Potential: Not established.

13. DISPOSAL INFORMATION:

Disposal of Material: Product is suitable for burning for fuel value in compliance with applicable laws and regulations and consideration of product characteristics at time of disposal. Conditions of use may cause this material to become a hazardous waste as defined by state or federal law. Use approved treatment, transporters and disposal sites.

Large Spills: Extinguish possible sources of ignition. Evacuate all unprotected personnel and ventilate area. Only personnel equipped with proper respiratory, skin/eye protection should enter spill area. Dike area to contain spill. Pick up spill on absorbent, non-combustible material. Don't flush into sewers or natural waterways.

Empty Containers: Keep containers closed when not in use. Do not reuse empty containers.
 Note: Flash Point is 142°F (ASTM D-56)

14. TRANSPORTATION:

Note: The flash point of this product is 142°F. Regulatory classifications vary as follows:
 DOT: <119 gal/container = Not regulated when shipped domestically in non-bulk packaging.
 >119 gal/container = Combustible Liquid – (49CFR 173.120 (b) (2)) Bulk

	<u>US DOT: 49CFR172.101</u>	<u>US DOT: 49CFR173.120 (b)(2)</u>
Proper shipping name:	Compounds, Cleaning liquid, Non-hazardous, Non-Flammable.	Hydrocarbons, liquid, n.o.s.
Hazard class or division:	None	Combustible liquid *
Identification No.:	None	UN3295
Packing Group	None	III
Label:	None	Combustible
Placard	None	Combustible/3295
Quantity Exemption	<119 gallons/container =Not regulated	>119 gallons

*This product has been reclassified in accordance with 49 CFR 173.150(f), so the reference to Class 3 is modified to read "Combustible liquid" (49 CFR 172.101 (d) (4)).

15. REGULATORY INFORMATION:

OSHA 29 CFR 1910.1200:	C10-C12 Isoalkanes	68551-17-7
States Right-to-Know:	C10-C12 Isoalkanes	68551-17-7 MN
TSCA:	Yes	
CERCLA:	None	
SARA TITLE III, Section 313:	None	
California Proposition 65:	None	
Sara TITLE III, Section 311/312:	Fire	
SARA TITLE III, Section 302:	No	
Canada WHMIS:	B3	
RoHS Compliant:	Yes	

16. OTHER INFORMATION:

REVISION SUMMARY:
 NFPA CODES: HEALTH: 1 FIRE: 2 REACTIVITY: 0
 HMIS CODES: HEALTH: 1 FIRE: 2 REACTIVITY: 0 PROTECTION:X

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