

Safety Data Sheet

Octane

Section 1: Product and Company Identification

Middlesex Gases & Technologies 292 Second Street P.O. Box 490249 Everett, MA 02149 (617) 387-5050 (800) 649-6704 Fax (617) 387-3537 http://www.middlesexgases.com/

Product Code: Octane

Section 2: Hazards Identification



Hazard Classification: Acute Aquatic Toxicity (Category 1) Aspiration Hazard (Category 1) Chronic Aquatic Toxicity (Category 1) Flammable (Category 1) Gases Under Pressure Specific target organ toxicity (Single Exposure) (Category 3)

Hazard Statements: Contains gas under pressure; may explode if heated Extremely flammable gas May be fatal if swallowed and enters airways May cause respiratory irritation; Very toxic to aquatic life Very toxic to aquatic life

Precautionary Statements

Prevention:

Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only outdoors or in a well-ventilated area. Avoid breathing dust/fume/gas/mist/ vapors/spray. [In case of inadequate ventilation] wear respiratory protection.

Response:

Leaking gas fire: Do not extinguish, unless leak can be stopped safely. Immediately call a poison center or doctor. Eliminate all ignition sources if safe to do so.

Middlesex Gases & Technologies Generated by the SDS Manager from AsteRisk, LLC. All Rights Reserved Do NOT induce vomiting. If swallowed: Rinse mouth. Do NOT induce vomiting. If inhaled: Remove person to fresh air and keep comfortable for breathing.

Storage:

Store in a well-ventilated place. Keep container tightly closed. Protect from sunlight. Store locked up.

Disposal:

Dispose of contents and/or container in accordance with applicable regulations.

Section 3: Composition/Information on Ingredients



Chemical Substance	Chemical Family	Trade Names
OCTANE	hydrocarbons, aliphatic	N-OCTANE; STCC 4909250; UN 1262; O-3980; C8H18

Section 4: First Aid Measures

Skin Contact	Eye Contact	Ingestion	Inhalation	Note to Physicians
Wash skin with soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention, if needed. Thoroughly clean and dry contaminated clothing and shoes before reuse.	Flush eyes with plenty of water for at least 15 minutes. Then get immediate medical attention.	Contact local poison control center or physician immediately. Never make an unconscious person vomit or drink fluids. When vomiting occurs, keep head lower than hips to help prevent aspiration. If person is unconscious, turn head to side. Get medical attention immediately.	If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. Get immediate medical attention.	For ingestion, consider gastric lavage.

Section 5: Fire Fighting Measures

Suitable Extinguishing Media	Products of Combustion	Protection of Firefighters
Regular dry chemical, carbon dioxide, water, regular foam Large fires: Use regular foam or flood with fine water spray.	Carbon monoxide, carbon dioxide	 Any self-contained breathing apparatus with a full facepiece. Any self-contained breathing apparatus with a full facepiece.

Section 6: Accidental Release Measures

Personal Precautions	Environmental Precautions	Methods for Containment
Keep unnecessary people away, isolate	Avoid heat, flames, sparks and other	Stop leak if possible without personal risk. Reduce vapors
hazard area and deny entry.	sources of ignition.	with water spray. Remove sources of ignition.

Methods for Cleanup

Other Information

Methods for Cleanup	Other Information
Small spills: Absorb with sand or other non-combustible material. Collect spilled material in appropriate container for disposal.	None

Section 7: Handling and Storage

Handling	Storage
Store and use with adequate ventilation. Firmly secure cylinders upright to	Do not get liquid in eyes, on skin, or clothing. Protect cylinders
keep them from falling or being knocked over. Screw valve protection cap	from damage. Use a suitable hand truck to move cylinders; do not
firmly in place by hand. Store only where temperature will not exceed 125°F	drag, roll, slide, or drop. Open valve slowly. Close cylinder valve
(52°C). Store full and empty cylinders separately. Use a first-in, first-out	after each use; keep closed even when empty. If valve is hard to
inventory system to prevent storing full cylinders for long periods.	open, discontinue use and contact your supplier.

Section 8: Exposure Controls/Personal Protection

Exposure Guidelines

OCTANE: 500 ppm (2350 mg/m3) OSHA TWA 300 ppm (1450 mg/m3) OSHA TWA (vacated by 58 FR 35338, June 30, 1993) 375 ppm (1800 mg/m3) OSHA STEL (vacated by 58 FR35338, June 30, 1993) 300 ppm ACGIH TWA 75 ppm (350 mg/m3) NIOSH recommended TWA 10 hour(s) 385 ppm (1800 mg/m3) NIOSH recommended ceiling 15 minute(s)

Engineering Controls

Handle only in fully enclosed systems.		
Eye Protection	Skin Protection	Respiratory Protection
Wear splash resistant safety goggles with a face shield. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.	Wear appropriate chemical resistant clothing.	Any self-contained breathing apparatus with a full facepiece.

General Hygiene considerations

- Avoid breathing vapor or mist
- Avoid contact with eyes and skin
- Wash thoroughly after handling and before eating or drinking

Section 9: Physical and Chemical Properties

Physical	State /	Appearance	Color	Change in A	ppearance	Physical Form	Odor	Taste		
Liquid	(Clear	Colorless	N/A		Liquid	Gasoline od	or N/A		
Flash Po	int	Flammability	y Partition	Coefficient	Autoignitio	n Temperature	Upper Explo	osive Limits	Lower Explosive	Limits
55 F (13 0	C) (CC)	IB	Not availa	able	403 F (206	C)	0.065		0.01	
									-	
Boiling Point	Freezin Point	ng Vapor Pressure	Vapor e Density	Specific Gravity	Water Solubility	рН	Odor Threshold	Evaporation Rate	Viscosity	

Molecular Weight	Molecular Formula	Density	Weight per Gallon	Volatility by Volume	Volatility	Solvent Solubility
114.23	C8-H18	Not available	Not available	100%	Not available	Soluble: Ether, acetone, benzene, chloroform, gasolines, petroleum ether

Section 10: Stability and Reactivity

Stability	Conditions to Avoid	Incompatible Materials
Stable at normal temperatures and	Stable at normal temperatures and	Oxidizing materials, peroxides, combustible
pressure.	pressure.	materials

Hazardous Decomposition Products	Possibility of Hazardous Reactions
Oxides of carbon	Will not polymerize.

Section 11: Toxicology Information

Oral LD50	Dermal LD50	Inhalation
LC50 = 50,518 ppmv, 1 hr, rat	Not available	Irritation, nausea, difficulty breathing, headache, drowsiness, symptoms of drunkenness

Eye Irritation	Skin Irritation	Sensitization
Irritation	Irritation, blisters	Respiratory tract irritation, skin irritation, eye irritation, central nervous system depression

Chronic Effects

Carcinogenicity	Mutagenicity	Reproductive Effects	Developmental Effects
Not available	Not available	Not available	No data

Section 12: Ecological Information

Fate and Transport

Eco toxicity	Persistence /	Bioaccumulation /	Mobility in
	Degradability	Accumulation	Environment
Fish toxicity: Not available Invertibrate toxicity: 100000 ug/L 96 hour(s) (Mortality) Coho salmon, silver salmon (Oncorhynchus kisutch) Algal toxicity: 120 ug/L 1.67 hour(s) EC50 (Food Consumption) Common bay mussel, blue mussel (Mytilus edulis) Phyto toxicity: 1 ug/L 9 year(s) EC50 (Photosynthesis) Diatom (Skeletonema costatum) Other toxicity: Not available	Not available	Not available	Not available

Section 13: Disposal Considerations

Dispose in accordance with all applicable regulations.

Section 14: Transportation Information

U.S. DOT 49 CFR 172.101

Proper Shipping Name	ID Number	Hazard Class or Division	Packing Group	Labeling Requirements	Passenger Aircraft or Railcar Quantity Limitations	Cargo Aircraft Only Quantity Limitations	Additional Shipping Description
Octanes	UN1262	3	П	3	N/A	N/A	N/A

Canadian Transportation of Dangerous Goods

Shipping Name UN Number Class Packing Group / Risk Group

Octanes UN1262 3 II

Section 15: Regulatory Information

U.S. Regulations

CERCLA Sections	SARA 355.30	SARA 355.40
Not regulated.	Not regulated.	Not regulated.

SARA	370.21
------	--------

Acute	Chronic	Fire	Reactive	Sudden Release
Yes	No	Yes	No	No

SARA 372.65 Not regulated.

OSHA Process Safety Not regulated.

State Regulations CA Proposition 65

Not regulated.

Canadian Regulations

WHMIS Classification B

National Inventory Status

US Inventory (TSCA)	TSCA 12b Export Notification	Canada Inventory (DSL/NDSL)
Listed on inventory.	Not listed.	Not determined.

Section 16: Other Information

NFPA Rating

HEALTH=2 FIRE=3 REACTIVITY=0

0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard