

Material Safety Data Sheet

SELECT3® MARINE FORMULA

SECTION 1 PRODUCT IDENTIFICATION

TRADE NAME: HAMMONDS SELECT3® MARINE
DESCRIPTION: Octlnitrate and an amine substituted resin with an amine fatty acid condensate in hydrocarbon solvent.
NFPA 704M/HMIS RATING: 3/3 Health 2/2Flammability 0/0 Reactivity 0 Other
0= Insignificant 1=Slight 2=Moderate 3=High 4=Extreme

SECTION 2 - HAZARDOUS INGREDIENTS

Our hazard evaluation has identified the following chemical ingredient(s) as hazardous. One or more is being claimed as a trade secret under OSHA's Hazard Communication Rule, 29 CFR 1910.1200. Consult Section 14 for the nature of the hazard(s).

INGREDIENT(S)	CAS #	APPROX.%
Cyclic Amines	Trade Secret	1 - 5%
Amine fatty acid condensate	Trade Secret	.7 - 3.5%
Amine substituted resin	Trade Secret	15 - 28%
Heavy aromatic naphtha	64742-94-5	20 - 50%
Octylnitrate	27247-96-7	40 - 50%
Napthalene	91-20-3	1 - 5%

SECTION 3 PRECAUTIONARY LABEL INFORMATION

WARNING: Combustible. Causes eye injury and skin irritation. May be harmful if inhaled or swallowed. Do not get in eyes. Avoid contact with skin and clothing. Wear goggles and face shield when handling. Avoid prolonged or repeated breathing of vapor. Use with adequate ventilation. Do not take internally. Keep away from heat and open flame. Keep container closed when not in use.

Empty containers may contain residual product. Do not reuse container unless properly reconditioned.

SECTION 4 - FIRST AID INFORMATION

EYES: Immediately flush for at least 15 minutes while holding eyelids open. Call a physician at once.

SKIN: Immediately flush with water for at least 15 minutes. For a large splash, flood body under a shower. Call a physician at once.

INGESTION: Do not induce vomiting. Give water. Call a physician.

INHALATION: Remove to fresh air. Treat symptoms

NOTE TO PHYSICIAN: Based on the individual reactions of the patient, the physician's judgment should be used to control symptoms and clinical condition.

CAUTION: If unconscious, having trouble breathing or in convulsions, do not induce vomiting or give water.

SECTION 5 - HEALTH EFFECTS INFORMATION

PRIMARY ROUTE(S) OF EXPOSURE: Eye, Skin, Inhalation

EYE CONTACT: Corrosive to the eyes with possible permanent damage depending on the length of exposure, and on the first aid action given.

SKIN CONTACT: Can cause moderate to severe irritation.

INGESTION: May be harmful.

INHALATION: Prolonged inhalation of mist or vapor may cause nausea, dizziness, light-headedness, vomiting or unconsciousness, depending on the length of exposure and the first action given

SYMPTOMS OF EXPOSURE:

ACUTE: Exposure to octylnitrate may cause decreased blood pressure and fainting.

CHRONIC: Prolonged inhalation of octylnitrate vapors may cause cyanosis, headaches, nausea or dizziness.

AGGRAVATION OF EXISTING CONDITIONS: Can cause severe decreased blood flow in individuals with poor blood circulation.

SECTION 6 - TOXICOLOGY INFORMATION

TOXICITY STUDIES: Toxicity studies have not been conducted on this product.

SECTION 7 - PHYSICAL AND CHEMICAL PROPERTIES

COLOR:	Yellow to amber	FORM:	Liquid	ODOR:	Hydrocarbon
DENSITY:	7.8 lb./gal.				
SOLUBILITY IN WATER:	Insoluble				
SPECIFIC GRAVITY:	0.94 @ 60° F		ASTM D-1298		
VISCOSITY:	32 SUS @ 100° F		ASTM D-2983		
POUR POINT:	Less than -30° F		ASTM D-97		
FLASH POINT:	160° - 172° F (TCC)		ASTM D-56		

NOTE: These physical properties are typical values for this product.

SECTION 8 - FIRE AND EXPLOSION INFORMATION

FLASH POINT: 160° - 172° F (TCC) ASTM D-56

EXTINGUISHING MEDIA: Based on the NFPA guide, use dry chemical, foam, carbon dioxide or other extinguishing agent suitable for Class B fires. Use water to cool containers exposed to fire. For large fires, use water spray or fog, thoroughly drenching the burning material.

Temperatures above 150° C can cause rapid, violent decomposition, releasing energy and Nox.

UNUSUAL FIRE AND EXPLOSION HAZARD: Wear air supplied breathing apparatus in enclosed areas.

SECTION 9 - REACTIVITY INFORMATION

INCOMPATIBILITY: Avoid contact with strong oxidizers (e.g. chlorine, peroxides, chromates, nitric acid, perchlorates, concentrated oxygen, permanganates) which can generate heat, fires, explosions and the release of toxic fumes.

FEEDING EQUIPMENT: Has been tested for compatibility with materials of construction and can be used with aluminum, mild steel, 304 SS, Plastite and Teflon.

THERMAL DECOMPOSITION PRODUCTS: In the event of combustion CO, CO₂, Nox may be formed. Do not breathe smoke or fumes. Wear suitable protective equipment. Should not be heated and should be kept away from heat, sparks and open flames.

Octyltriate decomposes at a rapid rate above 300° F. Decomposition may become violent, releasing excess energy and Nox.

SECTION 10 - PERSONAL PROTECTION EQUIPMENT

RESPIRATORY PROTECTION: Use either a chemical cartridge respirator with a dust/mist prefilter or supplied air.

For large spills, entry into large tanks, vessels or enclosed small spaces with inadequate ventilation, a positive pressure, self-contained breathing apparatus is recommended.

VENTILATION: General ventilation is recommended. Additionally, local exhaust ventilation is recommended where vapors, mists or aerosols may be released.

PROTECTIVE EQUIPMENT: Wear impermeable gloves, boots, apron and a face shield with chemical splash goggles. Examples of impermeable gloves available on the market are neoprene, nitrile, PVC, natural rubber, viton and butyl (compatibility studies have not been performed). A full slicker suit is recommended if gross exposure is possible.

The availability of an eye wash fountain and safety shower is recommended.

If clothing is contaminated, remove clothing and thoroughly wash the affected area. Launder contaminated clothing before reuse.

SECTION 11 - SPILL AND DISPOSAL INFORMATION

IN CASE OF TRANSPORTATION ACCIDENTS, CALL THE FOLLOWING 24-HOUR TELEPHONE NUMBER 1-800-424-9300.

SPILL CONTROL AND RECOVERY:

Small liquid spills: Contain with absorbent material, such as clay, soil or any commercially available absorbent. Shovel reclaimed liquid and absorbent into recovery or salvage drums for disposal. Refer to CERCLA in Section 14.

Large liquid spills: Dike to prevent further movement and reclaim into recovery or salvage drums or tank truck for disposal. Refer to CERCLA in Section 14.

For large indoor spills: Evacuate employees and ventilate area. Those responsible for control and recovery should wear the protective equipment specified in Section 14.

Keep the spill away from heat, sparks, flames and welding operations. Ventilate area and evacuate employees from exposure if the airborne concentration exceeds the LTV. Refer to Section 14.

DISPOSAL: If this product becomes a waste, trace levels of benzene may cause the product to be classified as a hazardous waste under the Resource Conservation and Recovery Act (RCRA) 40CFR261. Hazardous Waste D018. Before disposal, the product should be analyzed for its hazardous waste under RCRA (Toxicity Characteristic Leaching Procedure {TCLP} Test).

As a hazardous waste, it must be solidified with stabilizing agents (such as sand, fly ash, or cement) so that no free liquid remains before disposal to a licensed industrial waste landfill (Hazardous Waste Treatment, Storage and Disposal facility). A hazardous waste can also be incinerated in accordance with local, state, and federal regulations.

SECTION 12 - ENVIRONMENTAL INFORMATION

If released into the environment, see CERCLA in Section 14.

SECTION 13 - TRANSPORTATION INFORMATION

PROPER SHIPPING NAME/HAZARD CLASS MAY VARY BY PACKAGING, PROPERTIES, AND MODE OF TRANSPORTATION. THIS PRODUCT IS REGULATED ONLY WHEN SHIPPED IN CONTAINERS EXCEEDING 119 GALLONS OR 882 POUNDS CAPACITY OR WHEN THE PACKAGE EXCEEDS THE REPORTABLE QUANTITY. TYPICAL PROPER SHIPPING NAMES FOR THIS PRODUCT ARE:

ALL TRANSPORTATION MODES (UNLESS SPECIFIED BELOW)	:	COMBUSTIBLE LIQUID, N.O.S.
AIR TRANSPORTATION (IATA/ICAO)	:	PRODUCT IS NOT REGULATED DURING TRANSPORTATION
MARINE TRANSPORTATION (IMDG/IMO)	:	PRODUCT IS NOT REGULATED DURING TRANSPORTATION
UN/ID NO	:	NA 1993
HAZARD CLASS - PRIMARY	:	3 - COMBUSTIBLE LIQUID
PACKING GROUP	:	III
IMDG PAGE NO	:	N/A
IATA PACKING INSTRUCTION	:	CARGO: N/A
IATA CARGO AIRCRAFT LIMIT QUANTITY PER	:	NO LIMIT (MAX NET PACKAGE)
FLASH POINT	:	160° - 172°F 77.7c 69.4 - 77.7<
HAZARDOUS COMPONENT (S)	:	ALKYL NITRATE
RQ LBS (PER PACKAGE)	:	2000
RQ COMPONENT (S)	:	NAPHTHALENE

SECTION 14 - REGULATORY INFORMATION

The following regulations apply to this product.

FEDERAL REGULATIONS

OSHA'S HAZARD COMMUNICATION RULE, 29 CFR 1910.1200:

Based on our hazard evaluation, the following ingredients in this product are hazardous and the reasons are shown below:

Amine fatty acid condensate - Irritant
Amine substituted resin - Eye/skin irritant
Naphthalene - Irritant
Heavy aromatic naphtha - Combustible
Cyclic Amines - Corrosive to Tissue
Octyl nitrate - Combustible
Heavy aromatic naphtha = ppm TLV
Manufacturer's recommendation

CERCLA/SUPERFUND 40 CFR 117, 302:

Notification of spills of this product is not required.

SARA/SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986

(Title III) - Sections 302, 311, 312 and 313:

SECTION 302 - EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355):

This product does not contain ingredients listed in Appendix A and B as an Extremely Hazardous Substance.

SECTIONS 311 AND 312 - MATERIAL SAFETY DATA SHEET REQUIREMENTS (40 CFR 370):

Our hazard evaluation has found this product to be hazardous. This product should be reported under the following EPA hazard categories:

XX Immediate (acute) health hazard
---- Delayed (chronic) health hazard
XX Fire hazard
---- Sudden release of pressure hazard
---- Reactive hazard

UNDER SARA 311 AND 312

The EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are: 500 pounds or the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

SECTION 313 - LIST OF TOXIC CHEMICALS (40 CFR 372):

This product contains the following ingredient(s), (with CAS # and % range) which appear(s) on the List of Toxic Chemicals.

Naphthalene 91-20-3 1 - 5%

TOXIC SUBSTANCES CONTROL ACT (TSCA):

The chemical ingredients in this product are on the 8 (b) Inventory List (40 CFR 710).

REGISTERED WITH THE U. S. EPA, OFFICE OF FUEL AND FUEL ADDITIVE REGISTRATION, as a fuel additive.

RESOURCE CONSERVATION AND RECOVERY ACT (RCRA), 40 CFR 261 SUBPART C & D:

Consult Section 11 for RCRA classification.

FEDERAL WATER POLLUTION CONTROL ACT, CLEAN WATER ACE, 40 CFR 401.15 (formerly Sec. 307), 40 CFR 116 (formerly Sec. 311): None of the ingredients are specifically listed.

CLEAN AIR ACT: Sec. 111 (40 CFR 60), Sec. 112 (40 CFR 61, 19990 Amendments), Sec. 611 (40 CFR 82, CLASS I and II Ozone depleting substances):

This product does not contain ingredients covered by the Clean Air Act.

STATE REGULATIONS:

CALIFORNIA PROPOSITION 65:

Substances known to the State of California to cause cancer are present as an impurity or residue.

MICHIGAN CRITICAL MATERIALS:

This product does not contain ingredients listed on the Michigan Critical Materials Register

STATE RIGHT TO KNOW LAWS:

The following ingredient(s) are disclosed for compliance with State Right to Know Laws:

Cyclic Amines	Trade Secret
Amine fatty acid condensate	Trade Secret
Amine substituted resin	Trade Secret
Heavy aromatic naphtha	64742-94-5
Octylnitrate	27247-96-7
Naphthalene	91-20-3

INTERNATIONAL REGULATIONS:

This is a WHMIS controlled product under The House of Commons of Canada Bill C-70 (Class B3 and Class D2A). The product contains the following:

<i>Chemical Name</i>	<i>CAS#</i>	<i>% Concentration range</i>
Cyclic Amines	Trade Secret	1 - 5%
Amine fatty acid condensate	Trade Secret	.7 - 3.5%
Amine substituted resin	Trade Secret	.5 - 28%
Heavy Aromatic naphtha	64742-94-5	20- 40%
Octyl nitrate	27247-96-7	40 - 50%
Naphthalene	91-20-3	1 - 5%

SECTION 15 - USER'S RESPONSIBILITY

This product Material Safety Data Sheet provides health and safety information. The product is to be used in applications consistent with our product literature. Individuals handling this product should have access to this information. For any other uses, exposures should be evaluated so that appropriate handling practices and training programs can be established to ensure safe workplace operations. Please consult your local sales representative for any further information.

SECTION 16 - BIBLIOGRAPHY

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Page 8

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Date Changed: 1/1/2004

Date Printed: 1/1/2004

