



Material Safety Data Sheet

SELECT3®

Emergency Telephone Number
1-800-424-9300

SECTION 1 PRODUCT IDENTIFICATION

TRADE NAME: SELECT3® - DIESEL FUEL CONDITIONER
DESCRIPTION: An amine substituted resin in a hydrocarbon solvent.
NFPA 704M/HMIS RATING: 2/3 Health 2/2 Flammability 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 under OSHA's Hazard Communication Rule, 29 CFR 1910.1200. Consult Section 14 for the nature of the hazard(s).

HAZARDOUS SUBSTANCE(S)	CAS #	% (w/w)
Heavy Aromatic Naphtha	64742-94-5	10.0 – 30.0
Naphthalene	91-20-3	1.0 - 5.0
1, 2, 4 – Trimethylbenzene	95-63-6	1.0 - 5.0
Amine Substituted Resin	Proprietary	60.0 – 100.0

SECTION 3 PRECAUTIONARY LABEL INFORMATION

WARNING: Causes irritation to skin and eyes. Combustible. Prolonged inhalation of vapor may be harmful. Do not get in eyes, on skin or on 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: Flush with water for 15 minutes. Call a physician.

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. Call a physician.

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, and Inhalation

EYE CONTACT: Can cause mild irritation.

SKIN CONTACT: Can cause severe irritation.

INGESTION: Can be harmful.

INHALATION: Prolonged inhalation of mist or vapor may be harmful.

SYMPTOMS OF EXPOSURE:

ACUTE: Inhalation of high concentrations of heavy aromatic naphtha can cause nausea, dizziness, vomiting, stupor or unconsciousness.

CHRONIC: Prolonged skin contact with heavy aromatic naphtha can cause dry skin and defatting resulting in irritation and dermatitis.

AGGRAVATION OF EXISTING CONDITIONS: A review of available data does not identify any worsening of existing conditions.

SECTION 6 - TOXICOLOGY INFORMATION

ACUTE TOXICITY STUDIES: Acute toxicity studies have been conducted on this product. The results are shown below.



SECTION 6 – TOXICOLOGY INFORMATION CONTINUED

ACUTE ORAL TOXICITY (ALBINO RATS): LD 50 = Greater than 2,000 mg/kg 95% Confidence Limit = 1,767 – 3,066 mg/kg.

ACUTE DERMAL TOXICITY (ALBINO RABBITS): LD=50 Greater than 2,000 mg/kg

ACUTE INHALATION TOXICITY (ALBINO RATS): LC50 = 2.5 mg/1

COMMENTS: No deaths or untoward reactions at 4-hour vapor exposure to nominal concentration (2.5 mg/1).

PRIMARY SKIN IRRITATION TEST (ALBINO RABBITS):
SKIN IRRITATION INDEX DRAIZE RATING: 5.8/8.0 severely irritating

COMMENTS: 24-hour occluded contact with intact and abraded skin produced severe redness and subdermal hemorrhages. At 72-hours, superficial second degree burns without fibrosis were observed.

PRIMARY EYE IRRITATION TEST (ALBINO RABBITS):
EYE IRRITATION INDEX DRAIZE RATING: 10.5/110.0 mildly irritating

COMMENTS: Instillation of the product into the conjunctiva sac caused mild irritation at one hour with no corneal or iridial involvement. At 72 hours, all eyes were normal.

SECTION 7 - PHYSICAL AND CHEMICAL PROPERTIES

COLOR:	Clear to hazy, yellow to orange	FORM:	Liquid
DENSITY:	7.5-7.7 lbs/gal.		
SOLUBILITY IN WATER:	Insoluble		
SPECIFIC GRAVITY:	0.90-0.93 @ 60 Degrees F	ASTM D-1298	
pH (at 20%)	10.7	ASTM E-70	
VISCOSITY:	31 CST @ 60 Degrees F	ASTM D-2983	
POUR POINT:	Less than -20° F	ASTM D-97	
FLASH POINT:	153 Degrees F (TCC)	ASTM D-56	

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

SECTION 8 - FIRE AND EXPLOSION INFORMATION

FLASH POINT: 142° F/61.1° C (PMCC)

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.



UNUSUAL FIRE AND EXPLOSION HAZARD: In the event of combustion CO CO₂, NO_x may be formed. Do not breathe smoke or fumes. Wear suitable protective equipment.

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.

THERMAL DECOMPOSITION PRODUCTS: In the event of combustion CO, CO₂, NO_x may be formed. Do not breathe smoke or fumes. Wear suitable protective equipment.

SECTION 10 - PERSONAL PROTECTION EQUIPMENT

RESPIRATORY PROTECTION: Respiratory protection is not normally needed since the volatility and toxicity is low. If significant vapors, mists or aerosols are generated, wear a NIOSH approved or equivalent respirator.

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: Use impermeable gloves and chemical splash goggles when attaching feeding equipment, doing maintenance or handling product. Examples of impermeable gloves available on the market are neoprene, nitrile, PVC, natural rubber, butyl and butyl (compatibility studies have not been performed).

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.

DISPOSAL: If his product becomes a waste, it does not meet the criteria of a hazardous waste as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261, since it does not have the characteristics of Subpart C, nor is it listed under Subpart D.d for its hazardous waste under RCRA (Toxicity Characteristic Leaching Procedure {TCLP} Test).

As non-hazardous liquid waste, it should be solidified with stabilizing agents (such as sand, fly ash, or cement) so that no free liquid remains before disposal to an industrial waste landfill. A non-hazardous liquid 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

DOT PROPER SHIPPING NAME/HAZARD CODE - COMBUSTIBLE LIQUID, N.O.S. 3
CONTAINS COMBUSTIBLE LIQUID, UN 1993, PG III
AROMATIC HYDROCARBONS

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.

Heavy Aromatic Naphtha:	Combustible, Irritant
Naphthalene:	Skin irritant, Combustible
1, 2, 4 – Trimethylbenzene:	Irritant, Combustible
Amine Substituted Resin:	Irritant

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

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

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

<u>Hazardous Substance(s)</u>	<u>CAS NO.</u>	<u>% (W/W)</u>
Naphthalene	91-20-3	5.0 – 10.0
1, 2, 4 – Trimethylbenzene	95-63-6	5.0 – 10.0

TOXIC SUBSTANCES CONTROL ACT (TSCA):

The chemical ingredients in this product are on the TSCA 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 ACT, 40 CFR 401.15 (formerly Sec. 307), 40 CFR 116 (formerly Sec. 311): This product contains the following substances listed in the regulation.

<u>Substance(s)</u>	<u>Citations</u>
Naphthalene:	Sec. 307, Sec. 311

CLEAN AIR ACT: Sec. 111 (40 CFR 60, Volatile Organic Compounds), Sec. 112 (40 CFR 61, Hazardous Air Pollutants), Sec. 602 (40 CFR 82, Class I and II Ozone Depleting Substances): This product contains the following substances listed in the regulation.

<u>Substance(s)</u>	<u>Citations</u>
Naphthalene:	Sec. 112

STATE REGULATIONS:

CALIFORNIA PROPOSITION 65:

This product does not contain any chemicals that require warning under California Proposition 65.

MICHIGAN CRITICAL MATERIALS:

This product contains the following substances listed in the regulation:

Naphthalene



STATE RIGHT TO KNOW LAWS:

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

Naphthalene	91-20-3
1, 2, 4 – Trimethylbenzene	95-63-6

INTERNATIONAL REGULATIONS, CANADA:

WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS):

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

WHMIS CLASSIFICATION:

B3 – Combustible Liquids, D2B – Materials Causing Other Toxic Effects – Toxic Material

CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA):

All substances in this product are listed on the Domestic Substances List (DSL), are exempt, or have been reported in accordance with the New Substances Notification Regulations.

SECTION 15 – OTHER INFORMATION

Due To our commitment to Product Stewardship, we have evaluated the human and environmental hazards and exposures of this product. Based on our recommended use of this product, we have characterized the product's general risk. This information should provide assistance for your own risk management practices. We have evaluated our product's risk as follows:

*The human risk is: Moderate

*The environmental risk is: Moderate

Any use inconsistent with our recommendations may affect the risk characterization. Our sales representative will assist you to determine if your product application is consistent with our recommendations. Together we can implement an appropriate risk management process.

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.

REFERENCES

Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices, American Conference of Governmental Industrial Hygienists, OH., (Ariel Insight™ CD-ROM Version), Ariel Research Corp., Bethesda MD.

Hazardous Substances Data Bank, National Library of Medicine, Bethesda, Maryland (TOMES CPS™ CD-ROM Version), Micromedex, Inc., Englewood CO.



IARC Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Man, Geneva: World Health organization, International Agency for Research on Cancer.

Integrated Risk Information System, U.S. Environmental Protection Agency, Washington, D.C. (TOMES CPS™ CD-ROM Version), Micromedex, Inc., Englewood CO.

Annual Report on Carcinogens, National Toxicology Program, U.S. Department of Health and Human Services, Public Health Service.

Title 29 Code of Federal Regulations, Part 1910, Subpart Z, Toxic and Hazardous Substances, Occupational Safety and Health Administration (OSHA), (Ariel Insight™ CD-ROM Version), Ariel Research Corp., Bethesda MD.

Registry of Toxic Effects of Chemical Substances, National Institute for Occupational Safety and Health, Cincinnati, OH, (TOMES CPS™ CD-ROM Version), Micromedex, Inc., Englewood, CO.

Ariel Insight™ (An integrated guide to industrial chemicals covered under major regulatory and advisory programs), North American Module, Western European Module, Chemical Inventories Module and the Generics Module (Ariel Insight™ CD-ROM Version), Ariel Research Corporation, Bethesda, M.D.

The Teratogen Information System, University of Washington, Seattle, WA (TOMES CPS™ CD-ROM Version), Micromedex, Inc., Englewood, CO.

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HAMMONDS FUEL ADDITIVES, INC.