

MATERIAL SAFETY DATA SHEET

Product Name: FUEL OIL ADDITIVE 329

Product No. 062.00

SAVIN PRODUCTS COMPANY, INC

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: FUEL OIL ADDITIVE 329

Emergency phone: Chemtrec: 800-424-9300

Product Information: 781-961-2744

Company: SAVIN PRODUCTS COMPANY, INC.
214 HIGH STREET
RANDOLPH, MA 02368

Date Prepared: 07-25-04

Supersedes: 02-15-02

Prepared by: KJS

2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Component</u>	<u>CAS No.</u>	<u>Exposure Limits</u>	<u>Typical % by Weight</u>
1. Aliphatic Hydrocarbons	8052-41-3	OSHA PEL: TWA 500 ppm (2900 mg/m ³) TLV: 100 ppm; (as TWA) (ACGIH 2000).	85 - 95
2. Nonylphenol Ethoxylate	9016-45-9	N/A	1 - 10
3. Distilled Tall Oil	8002-26-4	N/A	1 - 10

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

DANGER: Combustible material. Causes eye irritation. May cause skin irritation with prolonged contact. Inhalation of mist may cause irritation to respiratory tract. Harmful if swallowed. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.

EFFECTS of OVEREXPOSURE:

CARCINOGENICITY:

NTP: No

IARC: No

OSHA: No

EYES: May cause eye irritation.

SKIN: Repeated or prolonged contact may cause skin irritation.

INHALATION: Mist may cause irritation to mucous membranes and respiratory tract.

INGESTION: May result in gastric disturbances.

CHRONIC EFFECTS and MEDICAL CONDITIONS: The effects of long-term, low-level exposures to this product have not been determined. Safe handling of this material on a long-term basis should emphasize the avoidance of all effects from repetitive acute exposure. This product may aggravate existing eye, skin and respiratory conditions.

4. FIRST AID MEASURES

EYES: Flush with copious amounts of water for at least 15 minutes, lifting upper and lower lids occasionally. Get immediate medical attention.

SKIN: Immediately flush with water. Remove contaminated clothing. Launder contaminated clothing before reuse.

INHALATION: Remove to fresh air. If breathing is difficult, oxygen may be given, preferably with a physician's advice. Get medical attention.

INGESTION: If swallowed, give several glasses of water. Do not induce vomiting. If vomiting does occur, give fluids again and keep head below hips to help prevent aspiration. Do not give anything by mouth to an unconscious person. Get immediate medical attention.

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5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES:

Flash Point: 320 - 400 F Test: SETA CC, ASTM (D-3278)

Explosive Limits: LEL = 1% UEL = 6%

OSHA Class II Combustible NFPA Rating 2

EXTINGUISHING MEDIA: Regular Foam, dry chemical, CO₂ or "alcohol" foam. Use water to cool containers

UNUSUAL FIRE and EXPLOSION HAZARDS: Combustion may produce noxious and irritating gases which require fresh air source in fire fighting.

FIREFIGHTING INSTRUCTIONS: Firefighters should wear NIOSH approved, positive pressure, self-contained breathing apparatus and full protective clothing when appropriate.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILLS: Soak up small spills with inert solids such as vermiculite or other absorbent materials. Use suitable disposal container.

LARGE SPILLS: Eliminate all ignition sources. Persons not wearing protective equipment should be excluded from the area of spill until clean-up has been completed. Stop Spill at source. Prevent from entering drains, sewers, seams or other bodies of water. Pump or vacuum spilled material and transfer to clean containers for recovery. Absorb unrecoverable material with absorbent and transfer contaminated absorbent to proper containers for disposal.

7. HANDLING AND STORAGE

Containers of this material may be hazardous when emptied. Since emptied containers retain residues (vapor, liquid, and/or solid), all hazard precautions given in the data sheet must be observed. Mechanical spraying of this product increases fire and health hazards. Store material in a clean, cool, ventilated area away from all sources of ignition. Clean up spills at once. Use only electrically grounded handling equipment. Keep container tightly closed when not in use. Always wear protective equipment. Wash thoroughly after handling.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EYE PROTECTION: Avoid splashing. Wear chemical-resistant safety goggles or face shield when eye contact may occur. Contact lenses must not be worn.

PROTECTIVE GLOVES: Use Buna N rubber gloves, apron and boots. This equipment should be cleaned thoroughly after each use.

RESPIRATORY PROTECTION: No occupational exposure standards have been developed for this material. Where exposure through inhalation may occur from use, NIOSH/MSHA approved respiratory protection equipment is recommended when engineering or administrative controls are unavailable.

VENTILATION: Provide general ventilation or explosion proof exhaust (60 FPM)

OTHER PROTECTIVE EQUIPMENT: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Clear, Thin, Red liquid.

BOILING POINT: approx. 320 – 400°F @ 1ATM

FREEZE/MELT POINT: N/A

VAPOR PRESSURE (mm): ca 10mm Hg @ 70F

VAPOR DENSITY (air=1): ca 4X Air

EVAPORATION RATE: Slower than water.

SOLUBILITY IN WATER: Emulsifies

SPECIFIC GRAVITY: 0.8 gm/ml @ 20C

DENSITY: 6.7 lb./gal. @ 20C

pH(as 10% water dispersion): 9.0

ODOR: Mild Solvent

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY (CONDITIONS TO AVOID): Stable.

CONDITIONS TO AVOID: Protect from heat, sparks, flame and possible sources of ignition.

MATERIALS TO AVOID: Strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, Carbon Dioxide and other toxic gases.

HAZARDOUS POLYMERIZATION: None

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11. TOXICOLOGICAL INFORMATION

No LD50 or LC50 found for oral, dermal or inhalation routes of administration.

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL/CHEMICAL FATE INFORMATION: Toxic to aquatic life.

13. DISPOSAL CONSIDERATIONS

RCRA: This product, if disposed as shipped, is considered a hazardous waste (ignitability) as specified in 40 CFR 261. Dispose in accordance with all applicable federal, state and local regulations.

14. TRANSPORT INFORMATION

SHIPPING NAME: FLAMMABLE LIQUIDS, n.o.s (Petroleum Distillate)
HAZARD CLASS: 3
ID #: UN 1993
PACKING GROUP: III
LABEL: COMBUSTIBLE LIQUID

15. REGULATORY INFORMATION

This material does not contain nor was it manufactured using ozone-depleting chemicals.

U.S. FEDERAL REGULATIONS:

TSCA STATUS: All ingredients on Toxic Substance Control Act Inventory.

CERCLA REPORTABLE QUANTITY: N/A

SARA TITLE III:

Section 302 Extremely Hazardous Substances:	None.
Section 311/312 Hazardous Categories:	Fire Hazard/Immediate (Acute)
Section 313 Toxic Chemicals:	None

RCRA STATUS: Based on chemical composition and pH (40 CFR Sec. 261.22), this material is classified as a hazardous waste (IGNITABILITY) if disposed as shipped.

16. OTHER INFORMATION

All label precautions must be observed when handling, storing and transporting empty containers due to product residues. Do not reuse this container unless it is professionally cleaned and reconditioned.

REFERENCES:

- U.S. Dept. of Health and Human Services, NIOSH: Registry of Toxic Effects of Chemical Substances, 1985-86 Edition.
- Sax, N. Irving and Lewis, R.J.: Dangerous Properties of Industrial Materials, 7th Edition, Van Nostrand Reinhold Co., 1989.
- Lewis, R.J.: Hawley's Condensed Chemical Dictionary, 12th Edition, Van Nostrand Reinhold Co., 1993.
- U.S. Dept. of Transportation, U.S. Coast Guard: CHRIS Hazardous Chemical Data, 1982.
- U.S. Dept. of Labor, OSHA: Air Contaminants - Permissible Exposure Limits, 1989.
- National Fire Protection Association (NFPA): Fire Protection Guide on Hazardous Materials (NFPA 325M/49/491M/704), 9th Edition, 1986.
- National Fire Protection Association (NFPA): Hazardous Materials Response Handbook, Henry, M.F., Editor, 1989.
- Merck & Co., Inc.: The Merck Index, 11th Edition, 1989.

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