

MSDS - Material Safety Data Sheet**Product Name: NO. 2 LOW SULFUR DIESEL FUEL**

MSDS No.: SER21

I. Basic Information:

Manufacturer: Silver Eagle Refining, Woods Cross Inc.

Address: P.O. Box 870298, 2355 South 1100 West

City, ST Zip: Woods Cross, UT 84087

Emergency Contact: CHEMTREC

Emergency Telephone Number: 800-424-9300

Contact: Scott Colton

Information Telephone Number: 801-550-1667

Last Update: 05/01/2001

Expiration Date:

Chemical State: Liquid Gas SolidChemical Type: Pure Mixture

1	Health
2	Flammability
0	Reactivity
X	Pers. Protection

II. Ingredients: Trade Secret

CAS No.	Chemical Name	% Range	EHS		IARC		SARA		OSHA PEL	ACGIH TLV	Other Limits
			NTP		SUB Z	313					

III. Hazardous Identification:

Hazard Category:

 Acute Chronic Fire Pressure Reactive
Hazardous Identification Information:

EMERGENCY OVERVIEW: Warning! Flammable. Harmful or fatal if swallowed and/or aspirated into the lungs. Can cause skin irritation upon prolonged or repeated contact.

Potential Health Effects:

EYE CONTACT: Slightly irritating to the eyes upon direct contact

SKIN CONTACT: Repeated or prolonged contact can cause skin irritation.

INHALATION: No problems expected under normal conditions of use.

INGESTION: Low viscosity product. Harmful or fatal if aspirated into lungs.

IV. First Aid Measures:

Route(s) of Entry:

Eyes, Skin, Lungs, and Ingestion.

Health Hazards (Acute and Chronic):

Harmful or fatal if swallowed and/or aspirated into the lungs. Can cause skin irritation upon prolonged or repeated contact.

Signs and Symptoms:

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Eye: Contact may cause mild eye irritation including stinging, watering, and redness.

Skin: Severe skin irritant. Contact may cause redness, itching, burning, and severe skin damage.

Prolonged or repeated contact can worsen irritation by causing drying and cracking of the skin, leading to dermatitis (inflammation). Not acutely toxic by skin absorption, but prolonged or repeated skin contact may be harmful (see Section 11).

Inhalation (Breathing): No information available. Studies by other exposure routes suggest a low degree of toxicity by inhalation.

Ingestion (Swallowing): Low degree of toxicity by ingestion. ASPIRATION HAZARD - This material can enter lungs during swallowing or vomiting and cause lung inflammation and damage.

Signs and Symptoms: Effects of overexposure may include irritation of the nose and throat, irritation of the digestive tract, nausea, diarrhea and transient excitation followed by signs of nervous system depression (e.g., headache, drowsiness, dizziness, loss of coordination, disorientation and fatigue).

Possible skin cancer hazard (see Sections 11 and 15). Cancer:

Target Organs: There is limited evidence from animal studies that overexposure may cause injury to the kidney (see Section 11).

Developmental: Inadequate data available for this material.

Other Comments: This material may contain polynuclear aromatic hydrocarbons (PNAs) which have been known to produce a phototoxic reaction when contaminated skin is exposed to sunlight. The effect is similar in appearance to an exaggerated sunburn, and is temporary in duration if exposure is discontinued. Continued exposure to sunlight can result in more serious skin problems including pigmentation (discoloration), skin eruptions (pimples), and possible skin cancers.

Pre-Existing Medical Conditions: Conditions aggravated by exposure may include skin disorders and kidney disorders.

Medical Conditions Generally Aggravated by Exposure:

EYE CONTACT: Slightly irritating to the eyes upon direct contact.

SKIN CONTACT: Repeated or prolonged contact may cause moderate irritation.

INHALATION: None expected under normal conditions of use.

INGESTION: Low viscosity product. Harmful or fatal if aspirated into lungs.

Emergency and First Aid Procedures:

EYES: Flush eyes with large amounts of water while holding the eyelids open for at least 15 minutes. Get medical attention if irritation persists.

SKIN: Wash skin immediately with soap and water and remove contaminated clothing and shoes. Get medical attention if irritation develops. Clean contaminated clothing and shoes thoroughly before reuse.

If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing and get medical attention immediately.

INGESTION: If swallowed, DO NOT INDUCE VOMITING. Get medical attention immediately.

Other Health Warnings:

V. Fire Fighting Measures:

Flash Point: 120 F

Lower Explosive Limit: 0.7%

Upper Explosive Limit: 5.0%

F.P. Method:

Fire Extinguishing Media: EXTINGUISHING MEDIA: Dry chemical, foam, or CO₂, or water fog. Do not use spray or a direct stream of water. Water may be ineffective on burning product and may enlarge fire area.

Special Fire Fighting Procedures:

For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment, including self contained breathing apparatus.

Unusual Fire and Explosion:

Keep away from ignition sources (e.g., heat and open flames). Keep container closed. Use with adequate ventilation.

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VI. Accidental Release Measures:

Steps to be Taken in Case Material is Released or Spilled:

For spills and leaks, remove or shut off all sources of ignition. Prevent spreading by diking, ditching, or absorbing on inert materials. Increase ventilation, if possible. Keep out of sewers and waterways.

VII. Handling and Storage:

Precautions to be Taken:

Store in combustible liquids area. Store way from heat, ignition sources, and open flame in accordance with applicable federal, state, or local regulations.

Other Precautions:

VIII. Exposure Controls/Personal Protection:

Ventilation Requirements:

INHALATION: Avoid breathing vapor and/or mist. Use with adequate ventilation. If ventilation is inadequate, use recommended NIOSH/MSHA respirator which will protect against organic vapor/mist. If operating conditions cause high vapor concentrations or if exposure limits are exceeded use supplied-air respirator approved by NIOSH/MSHA.

Personal Protective Equipment:

EYE: Use of eye protection is good industrial practice.

SKIN: Avoid prolonged or repeated skin contact. Wear protective clothing and gloves if repeated or prolonged contact is likely.

INGESTION: Use good personal hygiene practices, wash thoroughly with soap and water after using this material before eating or smoking. Aspiration of this product into the lungs can cause chemical pneumonia and can be fatal. Aspiration into the lungs can occur while vomiting after ingestion of this product. Do not siphon by mouth.

IX. Physical and Chemical Properties:

Boiling Point: 330 to 650 F @ 1 atm

Melting Point:

Evaporation Rate (Butyl Acetate = 1):

Vapor Pressure (mm Hg.): Not determined

Specific Gravity (H₂O = 1):

Vapor Density (AIR = 1):

Solubility In Water: Below 0.1%

Appearance and Odor:

Other Information: Specific Gravity: 0.8 (H₂O=1)

X. Stability and Reactivity:

Stability:

Burning can be started easily, no other dangerous reaction identified. Avoid heat, ignition sources, and open flame.

Incompatibility (Materials to Avoid):

Avoid strong oxidizers.

Decomposition/By Products:

Burning can produce carbon monoxide and carbon dioxide.

Hazardous Polymerization:

Not expected to occur.

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XI. Toxicological Information:

EYE: Primary eye irritation scores for similar material have ranged from 0.0 to 3.3/111.0 (rabbits)
SKIN: Similar products have produced primary irritation scores ranging from 1.96 to 6.30/8.0 (rabbits). Demal LD50 for similar products was greater than 2 g/kg (rabbits).
INHALATION: LC50 for a similar material was greater than 6.4 g/m³ (rats) This product has a sufficiently low vapor pressure to prevent a hazardous buildup of vapors unless the product is heated, used in a confined space with inadequate ventilation or misted. Inhalation of mist or high concentration of vapor can produce dizziness, headache, and nausea, and possible irritation of the eye, nose, and throat.
INGESTION: Oral LD50 for similar products was greater than 10 g/kg (rats); practically non-toxic for acute exposure by this route.
CARCINOGENIC: None identified.

XII. Ecological Information:

No ecological testing of this material has been completed.

XIII. Disposal Considerations:

Waste from this material must be disposed of in accordance with applicable federal, state, or local regulations.

XIV. Transport Information:

DOT SHIPPING NAME: Diesel Fuel
DOT HAZARD CLASS: 3
IDENTIFICATION #: NA1993
DOT PACKING GROUP: III
This material must be shipped in accordance with all applicable DOT regulations.

XV. Regulatory Information:

SARA 311: Acute = yes, Chronic = yes, Fire = yes, Pressure = no, Reactive = no
SARA 313: No chemicals have been identified in this material that exceed 1 wt% (0.1 wt% for EHS)
concentration that are on the Title III Section 313 list of Toxic chemicals.
OTHER: Not determined.

XVI. Other Information:

HMIS RATING: Health = 1, Flammability = 2, Reactivity = 0
NFPA RATING: Health = 1, Flammability = 2, Reactivity = 0

This material safety data sheet and the information it contains is offered to you in good faith as accurate. We have reviewed any information contained in this data sheet which we received from sources outside our company. We believe that information to be correct but cannot guarantee its accuracy or completeness. Health and safety precautions in this data sheet may not be adequate for all individuals and/or situations. It is the user's obligation to evaluate and use this product safely and to comply with all appropriate laws and regulations. No statement made in this data sheet shall be construed as a permission or recommendation for the use of any product in a manner that might infringe existing patents. No warranty is made, either expressed or implied.