



MATERIAL SAFETY DATA SHEET
 According to ANSI Z400.1-1998/ISO 11014-1:1994
Low Sulfur #2 Diesel Fuel - Dyed

Revision Number 1, Revision Date August 29, 2007

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Product Number 8106
Product Name Low Sulfur #2 Diesel Fuel - Dyed
Synonyms
Chemical characterization Liquid.
Manufacturer, importer, supplier American Refining Group, Inc.
 Lubricants and Specialty Products Division
 77 North Kendall Avenue
 Bradford, PA 16701
EMERGENCY TELEPHONE NUMBER CHEMTREC: 1-800-424-9300

2. COMPOSITION/INFORMATION ON INGREDIENTS

CAS	Chemical Name	% Weight	TSCA*	DSL - Canada*	ACGIH*
68476-34-6	Fuels, diesel, no. 2	100	Present	Present	100 mg/m3 TWA (vapor and aerosol, as total hydrocarbons)

* TSCA - United States - Section 8 (b) Inventory (TSCA)

* DSL - Canada - Domestic Substances List (DSL)

* ACGIH - Occupational Exposure Limits - TWA's

3. HAZARDS IDENTIFICATION

Emergency Overview:

- This product may be irritating to skin, eyes, nose, throat, and lungs. Use all necessary personal protection when handling this material.

Eye contact	Contact with eyes may cause irritation.
Skin contact	Can cause skin irritation.
Inhalation	Avoid breathing vapors or mists. Inhalation may cause mild irritation of respiratory tract. .
Ingestion	May be toxic if swallowed. Ingestion may cause nausea, vomiting, and diarrhea.
General advice	As with any chemical, use caution when handling.

4. FIRST AID MEASURES

General advice	<ul style="list-style-type: none"> • Immediate medical attention is not required • If exposure symptoms persist, seek medical attention. • Show this safety data sheet to the doctor in attendance
Skin contact	<ul style="list-style-type: none"> • Wash off immediately with soap and plenty of water
Eye contact	<ul style="list-style-type: none"> • Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes • If eye irritation persists, seek medical attention
Inhalation	<ul style="list-style-type: none"> • Move to fresh air. • If exposure symptoms persist, seek medical attention.
Ingestion	<ul style="list-style-type: none"> • Do not swallow. Rinse mouth with water and afterwards drink plenty of water. • Never give anything by mouth to an unconscious person • Consult a physician if necessary
Notes to physician	<ul style="list-style-type: none"> • Treat symptomatically

Protection of first-aiders	<ul style="list-style-type: none"> ● Use necessary personal protective equipment
Aggravated Medical Conditions	<ul style="list-style-type: none"> ● Users with skin conditions (eczema, psoriasis, etc.), respiratory conditions (asthma, bronchitis, emphysema, etc.) or with chemical sensitivities should take protective precautions.

5. FIRE-FIGHTING MEASURES

Flash point	<ul style="list-style-type: none"> ● 125°F/52°C (summer) 100°F/38°C (winter)
Suitable extinguishing media	<ul style="list-style-type: none"> ● carbon dioxide (CO₂) ● water fog ● alcohol-resistant foam ● dry chemical
Extinguishing media which must not be used for safety reasons	<ul style="list-style-type: none"> ● Water, except as fog
Special exposure hazards arising from the substance or preparation itself, its combustion products, or released gases	<ul style="list-style-type: none"> ● Keep product and empty container away from heat and sources of ignition
Special protective equipment for firefighters	<ul style="list-style-type: none"> ● As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear
Specific methods	<ul style="list-style-type: none"> ● In the event of fire, cool tanks with water spray ● Use spark-proof tools and explosion-proof equipment
NFPA (National Fire Protection Association)	<ul style="list-style-type: none"> ● Health=1, Fire=2, Reactivity=0, Special=0

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	<ul style="list-style-type: none"> ● Evacuate personnel to safe areas ● Keep people away from and upwind of spill/leak ● Wear personal protective equipment ● Remove all sources of ignition ● Ensure adequate ventilation ● Floors may be slippery
Environmental precautions	<ul style="list-style-type: none"> ● Prevent further leakage or spillage if safe to do so ● Prevent product from entering drains
Methods for cleaning up	<ul style="list-style-type: none"> ● Dam up ● Soak up with inert absorbent material ● Pick up and transfer to properly labelled container for disposal. ● Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container

7. HANDLING AND STORAGE

Handling

Technical measures/Precautions	<ul style="list-style-type: none"> ● Use only in areas provided with adequate ventilation. ● Keep away from open flames, hot surfaces and sources of ignition
Safe handling advice	<ul style="list-style-type: none"> ● Wear personal protective equipment ● Do not breathe vapours or spray mist. Ensure that ventilation is adequate before using this product.

Storage

Technical measures/Precautions	<ul style="list-style-type: none"> ● Keep containers tightly closed; discard any material that may be contaminated or, which may have changed composition. ● Keep away from heat ● Protect from light ● Keep in properly labelled containers.
Incompatible products	<ul style="list-style-type: none"> ● No information available

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures	<ul style="list-style-type: none">• Ensure adequate ventilation, especially in confined areas
Personal protective equipment	
Hand protection	<ul style="list-style-type: none">• Impervious gloves
Eye protection	<ul style="list-style-type: none">• Wear tightly fitting safety goggles or safety glasses with side-shields
Respiratory protection	<ul style="list-style-type: none">• When workers are facing concentrations above the exposure limit they must use appropriate certified respirators
Skin and body protection	<ul style="list-style-type: none">• Long sleeved clothing
Hygiene measures	<ul style="list-style-type: none">• Handle in accordance with good industrial hygiene and safety practice• Keep away from food, drink and animal feeding stuffs• When using, do not eat, drink or smoke

9. PHYSICAL AND CHEMICAL PROPERTIES

General Information

Form	Liquid.
Appearance	Clear.
Colour	Red.
Odour	Hydrocarbon solvent.

Important Health Safety and Environmental Information

Boiling Point	>205°C / >400°F
Pour Point	-18°C / 0°F
Vapor Pressure	<1 mm Hg @ 20°C.
Density	7.3 lbs/gallon
Vapour density	7.4.
Water solubility	Insoluble.
Specific Gravity	0.88.
Sulfur Content:	15-500 ppm

10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions.
Conditions to avoid	Heat, flames and sparks
Materials to avoid	None.
Hazardous decomposition products	None under normal use. When burned :carbon dioxide, carbon monoxide, hydrocarbons.
Polymerization	Polymerization does not occur.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Component Information

Product Information

LD50/dermal/rat =	>2000 mg/kg
LD50/oral/rat =	>5000 mg/kg
LC50/inhalation/8h/rat =	>5000 mg/L
Local effects	
Skin irritation	May cause skin irritation.
Eye irritation	May cause eye irritation.
Inhalation	Move to fresh air in case of accidental inhalation .
Ingestion	Harmful if swallowed. Maybe toxic if swallowed. Nausea, Vomiting, Diarrhea (deterive effects).
Sensitization	May cause sensitization of susceptible persons.

Chronic toxicity	Prolonged exposure may cause chronic effects.
Specific effects	
Carcinogenic effects	Diesel fuel exhaust has been classified as a Group 2A by IARC.
Mutagenic effects	Does not exhibit mutagenic effects, based on testing of similar materials.
Reproductive toxicity	Does not exhibit reproductive toxicity, based on testing of similar materials.
Target Organ Effects	No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity effects

Component Information

Product Information

Other information:

Ozone depletion potential; ODP; (R-11 = 1)	No information available.
Global warming potential (GWP)	No information available.
Additional ecological information	This product is not readily biodegradable in water but are inherently biodegradable based on test results of similar products.
Mobility	No information available
Bioaccumulative potential	Low Log Kow values for the hydrocarbon components, indicate a potential for bioaccumulation.
Ecotoxicity effects	No information available
Aquatic toxicity	The major loss process would be volatilization with biodegradation expected to only contribute slightly.

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products	Dispose of in accordance with local regulations.
Contaminated packaging	Dispose of in accordance with local regulations.

14. TRANSPORT INFORMATION

DOT

UN-No	NA1993
Proper shipping name	Fuel Oil
Packing group	III
Hazard Class	3, Combustible Liquid
Description	DOMESTIC: unregulated by DOT if shipped in container of less than 199 gallons

15. REGULATORY INFORMATION

U.S. Inventories

CAS	Chemical Name	% Weight	TSCA*
68476-34-6	Fuels, diesel, no. 2	100	Present

* TSCA - United States - Section 8 (b) Inventory (TSCA)

International Inventories

CAS	Chemical Name	% Weight	DSL - Canada*	EINECS*	ECL*	ENCS*	IECS - Inventory of Existing	AICS - Australia*	PICCS*
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							Chemical Substances*		
68476-34-6	Fuels, diesel, no. 2	100	Present	270-676-1	KE-17287	N/A	Present	Present	Present

* DSL - Canada - Domestic Substances List (DSL)

* EINECS - European Inventory of Existing Commercial Substances (EINECS)

* ECL - Korea - Existing and Evaluated Chemical Substances (ECL)

* ENCS - Japan Existing and New Chemical Substances (ENCS)

* IECS - Inventory of Existing Chemical Substances - China

* AICS - Australia - Inventory of Chemical Substances (AICS)

* PICCS - Philippines - Inventory of Chemicals and Chemical Substances (PICCS)

16. OTHER INFORMATION

Prepared By

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Notice

We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind, express or implied, and we assume no responsibility for any loss, damage, or expense, direct or consequential, arising out of their use.

End of Safety Data Sheet