

# Residual Fuel Oil

## Safety Data Sheet

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)  
Issue date: 8/14/2024 Revision date: 4/23/2025 Supersedes: 8/14/2024 Version: 1.1

### SECTION 1 Identification

#### 1.1. Product identifier

Product form : Mixture  
Trade name : Residual Fuel Oil

#### 1.2. Other means of identification

No additional information available

#### 1.3. Recommended use of the chemical and restrictions on use

Use of the substance/mixture : Fuel Oil, Heavy Fuel Oil, Ship Fuel, Bunker Fuel, Burner Oil, Process feedstock

#### 1.4. Supplier's details

Goodway Refining LLC  
4745 Ross Rd  
Atmore, Alabama 36502-4211  
T 1-251-867-5413

#### 1.5. Emergency phone number

Emergency number : For Hazardous Materials or Dangerous Goods Incident Spill, Leak, Fire, Exposure, or Accident  
Call CHEMTREC Day or Night: 1-800-424-9300 (Toll Free, USA) / 703-527-3887 (Virginia, USA)  
CCN 9658  
Back-up Emergency Number: +1 703-741-5970 (Washington, DC)

### SECTION 2 Hazard Identification

#### 2.1. Classification of the substance or mixture

##### GHS US classification

Flammable liquid, Category 4	H227	Combustible liquid.
Carcinogenicity, Category 1B	H350	May cause cancer.
Full text of H statements : see section 16		

#### 2.2. Label elements

##### GHS US labeling

Hazard pictograms (GHS US) :



Signal word (GHS US) : Danger

Hazard statements (GHS US) : Combustible liquid  
May cause cancer.

Precautionary statements (GHS US) : Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.  
Wear eye and face protection.  
If exposed or concerned: Get medical advice/attention.  
In case of fire: Use Carbon dioxide (CO<sub>2</sub>), dry chemical powder, foam to extinguish.  
Store in a well-ventilated place.  
Store locked up.

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Dispose of contents and/or container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulations.

### 2.3. Hazards associated with known or reasonably anticipated uses

No additional information available

### 2.4. Hazards not otherwise classified

No additional information available

### 2.5. Unknown acute toxicity

No additional information available

## SECTION 3 Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%	GHS US classification
Residues (petroleum), topping plant, low-sulfer	CAS-No.: 68607-30-7	99 – 100	Carc. 1B, H350
Sulfur	CAS-No.: 7704-34-9	0.1 – 1	Skin Irrit. 2, H315

Full text of hazard classes and H-statements : see section 16

## SECTION 4 First aid measures

### 4.1. Description of necessary first-aid measures

First-aid measures general	: Call a physician immediately. First aider: Pay attention to self-protection. Never give anything by mouth to an unconscious person. Induce artificial respiration with mask fitted with one-way valve or other suitable device but not mouth-to-mouth.
First-aid measures after inhalation	: Call a physician immediately. If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If the victim is unconscious : Lay in a stable manner on victim's side. Induce artificial respiration with mask fitted with one-way valve or other suitable device; not mouth-to-mouth.
First-aid measures after skin contact	: Remove affected clothing and wash all exposed skin areas with mild soap and water, followed by warm water rinse. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse eyes with water as a precaution. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Call a poison center/doctor/physician if you feel unwell. Do NOT induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs.

### 4.2. Most important symptoms/effects, acute and delayed

Symptoms/effects after inhalation	: Prolonged and frequent exposure through inhalation may cause cancer.
Symptoms/effects after skin contact	: Not expected to present a significant skin hazard under anticipated conditions of normal use.
Symptoms/effects after eye contact	: Not expected to present a significant eye contact hazard under anticipated conditions of normal use.
Symptoms/effects after ingestion	: Not expected to present a significant ingestion hazard under anticipated conditions of normal use.
Most Important Symptoms/Effects	: Suspected of causing cancer.
Chronic symptoms	: Prolonged and frequent exposure through inhalation may cause cancer.

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### 4.3. Indication of immediate medical attention and special treatment needed, if necessary

Other medical advice or treatment : IF exposed or concerned: Get medical advice/attention.

## SECTION 5: Fire-fighting measures

### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Carbon dioxide (CO<sub>2</sub>), dry chemical powder, foam.  
Unsuitable extinguishing media : Do not use a heavy water stream.

### 5.2. Specific hazards arising from the chemical

Fire hazard : Combustible liquid.  
Explosion hazard : Vapors may form explosive mixture with air. Vapors are heavier than air and may travel considerable distance to an ignition source and flash back to source of vapors.  
Reactivity in case of fire : On exposure to high temperature, may decompose, releasing toxic vapors.  
Hazardous decomposition products in case of fire : Toxic fumes may be released. Carbon dioxide. Carbon monoxide. Hydrogen sulfide. Sulfur oxides.

### 5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion. Do not enter fire area without proper protective equipment, including respiratory protection. Move containers from fire area if it can be done without personal risk. Prevent fire-fighting water from entering environment.  
Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

## SECTION 6 Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Avoid all personal contact including breathing in the vapors. Do not take actions involving personal risks. Absorb spillage to prevent material-damage. Stop leak if safe to do so. Notify authorities if product enters sewers or public waters.

#### For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.  
Emergency procedures : Evacuate the danger area. If possible without taking personal risks, remove ignition sources. If outdoors, move to an area upwind of the danger area. Prevent other non-emergency personnel from entering the danger area. No open flames, no sparks, and no smoking. Only qualified personnel equipped with suitable protective equipment may intervene. Do not breathe fume, vapors.

#### For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".  
Emergency procedures : Evacuate unnecessary personnel. Stop leak if safe to do so. Remove all sources of ignition. Prevent runoff from entering drains, sewers or waterways.  
Environmental precautions : Avoid release to the environment. Notify authorities if product enters sewers or public waters.

### 6.2. Methods and materials for containment and cleaning up

For containment : Stop leak, if possible without risk. Contain with non-combustible inert absorbent. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

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Methods for cleaning up	: Take up in non-combustible inert absorbent and place into container for disposal. Contaminated absorbent material may pose the same hazard as the spilt product. Decontaminate surfaces and equipment with water and detergent. Until a sufficient level of dilution is achieved, the decontamination water may pose the same hazards as the product. Notify authorities if product enters sewers or public waters.
Other information	: Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

For further information refer to section 8: "Exposure controls/personal protection", For further information refer to section 13

## SECTION 7 Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling	: Take precautionary measures against static discharge. Use only outdoors or in a well-ventilated area. Wear personal protective equipment. Avoid breathing fume, vapors. Avoid contact with skin, eyes and clothing. Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Use explosion-proof equipment.
Hygiene measures	: Always wash hands after handling the product. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product.
Additional hazards when processed	: Proper grounding procedures to avoid static electricity should be followed. Vapor/air mixtures are explosive.

### 7.2. Conditions for safe storage, including incompatibilities

Storage conditions	: Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking. Store in a cool, dry and well-ventilated area away from incompatible substances. Protect from sunlight. Keep container tightly closed. Use explosion-proof equipment.
Incompatible materials	: Strong oxidizers.
Heat-ignition	: Keep away from sources of ignition - No smoking.
Packaging materials	: Store always product in container of same material as original container.

## SECTION 8 Exposure controls/personal protection

### 8.1. Control parameters

No additional information available

### 8.2. Appropriate engineering controls

Appropriate engineering controls	: Ensure good ventilation of the work station. Handle in accordance with good industrial hygiene and safety procedures.
Environmental exposure controls	: Avoid release to the environment. Take measures to reduce or limit air emissions and releases to soil and the aquatic environment.

### 8.3. Individual protection measures, such as personal protective equipment

#### Personal protective equipment:

Personal protective equipment should be chosen according to national standards and in discussion with the supplier of the protective equipment. Wear recommended personal protective equipment.

#### Materials for protective clothing:

Wear suitable protective clothing. Flame retardant antistatic protective clothing

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<b>Hand protection:</b>
Wear protective gloves. Wear suitable gloves resistant to chemical penetration
<b>Eye protection:</b>
Wear safety glasses which protect from splashes
<b>Skin and body protection:</b>
Wear suitable protective clothing
<b>Respiratory protection:</b>
[In case of inadequate ventilation] wear respiratory protection. Self-contained breathing apparatus

### Personal protective equipment symbol(s):



## SECTION 9 Physical and chemical properties

### 9.1. Basic physical and chemical properties

Physical state	: Liquid
Color	: Black
Odor	: Petroleum asphalt
Odor threshold	: No data available
pH	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: > 204.44 °C />400° F
Flash point	: > 60 °C />140° F
Flammability (solid, gas)	: Not applicable.
Vapor pressure	: No data available
Relative vapor density at 20°C	: No data available
Relative density	: 0.887 – 0.934
Solubility	: Insoluble.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: > 407.22 °C />765° F
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Explosion limits	: No data available
Particle characteristics	: No data available

### Residues (petroleum), topping plant, low-sulfer

Particle characteristics	No data available
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### Sulfur

Particle characteristics	No data available
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### 9.2. Data relevant with regard to physical hazard classes (supplemental)

No additional information available

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### SECTION 10 Stability and reactivity

#### 10.1. Reactivity

Combustible liquid. Heating may cause a fire.

#### 10.2. Chemical stability

Stable under normal conditions of use.

#### 10.3. Possibility of hazardous reactions

Vapors may form flammable and explosive mixture with air.

#### 10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition. Incompatible materials.

#### 10.5. Incompatible materials

Strong oxidizers.

#### 10.6. Hazardous decomposition products

Thermal decomposition generates: Carbon monoxide. Chlorine dioxide. Hydrogen sulfide. Sulfur oxides.

### SECTION 11 Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified  
Acute toxicity (dermal) : Not classified  
Acute toxicity (inhalation) : Not classified

#### Residues (petroleum), topping plant, low-sulfer

LD50 dermal rabbit	> 2000 mg/kg body weight
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#### Sulfur

LD50 oral rat	> 2000 mg/kg body weight
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LD50 dermal rat	> 2000 mg/kg body weight
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Skin corrosion/irritation : Not classified

Serious eye damage/irritation : Not classified

Respiratory or skin sensitization : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : May cause cancer.

Reproductive toxicity : Not classified

STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

Aspiration hazard : Not classified

#### Residual Fuel Oil

Viscosity, kinematic	No data available
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### Residues (petroleum), topping plant, low-sulfur

Viscosity, kinematic	No data available
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#### Sulfur

Viscosity, kinematic	No data available
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Symptoms/effects after inhalation	: Prolonged and frequent exposure through inhalation may cause cancer.
Symptoms/effects after skin contact	: Not expected to present a significant skin hazard under anticipated conditions of normal use.
Symptoms/effects after eye contact	: Not expected to present a significant eye contact hazard under anticipated conditions of normal use.
Symptoms/effects after ingestion	: Not expected to present a significant ingestion hazard under anticipated conditions of normal use.
Most Important Symptoms/Effects	: Suspected of causing cancer.
Chronic symptoms	: Prolonged and frequent exposure through inhalation may cause cancer.

## SECTION 12 Ecological information

### 12.1. Ecotoxicity

Ecology - general	: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.
Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: Not classified

#### Sulfur

EC50 - Crustacea [1]	> 5 µg/l
NOEC (chronic)	> 100 mg/l

### 12.2. Persistence and degradability

#### Residual Fuel Oil

Persistence and degradability	Not rapidly degradable
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#### Residues (petroleum), topping plant, low-sulfur

Persistence and degradability	Not rapidly degradable
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#### Sulfur

Persistence and degradability	Not rapidly degradable
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### 12.3. Bioaccumulative potential

No additional information available

### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

Ozone	: Not classified
Fluorinated greenhouse gases	: No

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### SECTION 13 Disposal considerations

Regional waste regulation	: Disposal must be done according to official regulations.
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Sewage disposal recommendations	: Disposal must be done according to official regulations.
Product/Packaging disposal recommendations	: Disposal must be done according to official regulations. Dispose of this material and its container at hazardous or special waste collection point. Refer to all applicable national, international and local regulations or provisions.
Additional information	: Do not re-use empty containers.
Ecological waste information	: Avoid release to the environment.

### SECTION 14 Transport information

In accordance with DOT / IMDG / IATA

DOT	IMDG	IATA
<b>14.1. UN number</b>		
NA1993	Not regulated	Not regulated
<b>14.2. Proper Shipping Name</b>		
Combustible liquid, n.o.s. (Fuel Oil)	Not regulated	Not regulated
<b>14.3. Transport hazard class(es)</b>		
Combustible liquid	Not regulated	Not regulated
<b>14.4. Packing group</b>		
III	Not regulated	Not regulated
<b>14.5. Environmental hazards</b>		
	Not regulated	
DOT Note: Material is not hazardous when shipped less than 119 gallons.		

#### 14.6. Transport in bulk

Not applicable

#### 14.7. Special precautions for user

<b>DOT</b>	
UN-No. (DOT)	: NA1993
DOT Packaging Exceptions (49 CFR 173.xxx)	: 150
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 203
DOT Packaging Bulk (49 CFR 173.xxx)	: 241
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 60 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 220 L
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.

#### IMDG

Not regulated

#### IATA

Not regulated



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### SECTION 15 Regulatory information

#### 15.1. Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory, except for:

Residues (petroleum), topping plant, low-sulfer	CAS-No. 68607-30-7	99 – 100%
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This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

#### 15.2. International regulations

##### CANADA

##### Sulfur (7704-34-9)

Listed on the Canadian DSL (Domestic Substances List)

##### EU-Regulations

No additional information available

##### National regulations

##### Sulfur (7704-34-9)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

#### 15.3. State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

### SECTION 16 Other information

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)

Revision date : 4/23/2025

Issue date : 8/14/2024

Full text of hazard classes and H-statements	
H227	Combustible liquid
H315	Causes skin irritation
H350	May cause cancer.

Indication of changes:		
Section	Changed item	Comments
	Precautionary statements (GHS US)	<b>Modified</b>
		<b>Modified</b> Updated to HazCom 2024

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.