



SAFETY DATA SHEET SUN RESIFLEX™

SECTION 1 – IDENTIFICATION

PRODUCT NAME: SUN RESIFLEX™
EFFECTIVE DATE: January 20, 2020
CHEMICAL FAMILY: Drilling Fluid Additive
USAGE: Loss Circulation Material
U.S. MANUFACTURER: SUN DRILLING PRODUCTS CORP.
d/b/a SUN SPECIALTY PRODUCTS
503 Main Street
Belle Chasse, LA 70037

CANADIAN IMPORTER : SUN DRILLING PRODUCTS CORP.
d/b/a SUN SPECIALTY PRODUCTS
#102 6660 Taylor Drive
Red Deer, AB TYP 1Y3
(403) 341-5046 (for 24-hr Emergency call Chemtrec)

CHEMTREC
24 Hour CHEMICAL EMERGENCY – Spill, Leak, Fire, Accident
USA/Canada Call 1-800 424-9300

SECTION 2 – HAZARD IDENTIFICATION

2.1. Classification of the substance or mixture:

This substance is classified as hazardous as a combustible dust by the United States 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200) and the Canadian Hazardous Products Regulation (HPR) 2015. The signal word, hazard statement and precautionary statements in the United States and Canada are:

2.2 Label Elements

Classification: Combustible Dust HPR Category 1(a)

Signal Word: Warning

Hazard Statement: May form combustible dust concentrations in air.

Precautionary Statements: Keep away from all ignition sources including heat, sparks and flame. No smoking. Prevent dust accumulations to minimize explosion hazard.

GHS Classification: Not a hazardous substance according to Regulation (EC) 1272/2008 (CLP), its various amendments and adaptations and Directive 67/548/EEC.



SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENT	CAS NUMBER	ACGIH TLV
Calcined Petroleum Coke	64743-05-01	10 mg/m ³ , inhalable particles 3 mg/m ³ , respirable particles

The criteria for listing components in the composition are as follows: Carcinogens are listed when present at 0.1% or greater; components which are otherwise hazardous according to OSHA are listed when present at 1.0% or greater. Non-hazardous components may be listed at 3.0% or greater if not proprietary in nature. This is not intended to be complete compositional disclosure. Refer to section 14 for applicable states right-to-know and other regulatory information.

EMERGENCY OVERVIEW

APPEARANCE/ODOR:

Fine Black-Gray Powder/Odorless

SHORT TERM EXPOSURE

GENERAL: No significant adverse health effects are expected to develop with normal use.

EYES: Slight to moderate mechanical irritant on direct contact.

SKIN: Persons with pre-existing skin disorders may experience slight mechanical irritation.

INHALATION: No adverse effects with normal use. Repeated or prolonged overexposure may result in respiratory symptoms, particularly in those with a pre-existing respiratory condition.

INGESTION: No significant adverse health effects are expected to develop if only small amounts (less than a mouthful) are swallowed.

LISTED CARCINOGEN: NTP RoC- Not listed. IARC MONOGRAPHS – Not classified.

SECTION 4 – FIRST AID MEASURES

EYE CONTACT - In case of eye contact, flush immediately with water for a minimum of 15 minutes; seek medical attention if contact irritation persists.

SKIN CONTACT – If contact with skin results in irritation, wash thoroughly with soap and water.

INHALATION - If cough, shortness of breath or other breathing problems occur, move to fresh air. Seek medical attention if symptoms develop.

INGESTION - If swallowed, do not induce vomiting; seek immediate medical attention.

SECTION 5 – FIRE FIGHTING MEASURES

FLASHPOINT: ND

EXTINGUISHING MEDIA: Use alcohol-resistant foam, carbon dioxide, dry chemical or water spray. A fog is recommended if water is used. DO NOT USE a solid water stream as it may scatter and spread fire. DO NOT USE high-pressure media which could cause formation of a potentially explosive dust-air mixture.

DECOMPOSITION PRODUCTS: Carbon Oxides. Sulphur Oxides.

LOWER FLAME LIMIT: NA

HIGHER FLAME LIMIT: NA



UNUSUAL FIRE AND EXPLOSION HAZARDS: Product is electrically conductive. Accumulations of dust resulting from processing activities, in the presence of an ignition source, can create a potential dust explosion hazard. Good housekeeping is essential to mitigating combustible dust hazard.

FIRE FIGHTING EQUIPMENT: Fire Fighters and others exposed to products of combustion should wear self-contained breathing apparatus. Equipment should be thoroughly decontaminated after use.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

CHEMICAL EMERGENCY NUMBER (24 HOURS): CHEMTREC 1-800-424-9300 USA/CANADA

SPILL: In case of spill, if product cannot be collected and reused by sweeping or vacuuming, dispose of in accordance with applicable regulations. Minimize dust generation and accumulation. Avoid spillage into drains, surface, and ground water.

RCRA STATUS: Not regulated. Product as sold would be a nonhazardous, solid industrial waste.

SECTION 7 – HANDLING AND STORAGE

Avoid contact with skin and eyes. Avoid dust formation and accumulation. Avoid creating dust clouds by sweeping or use of compressed air. Good housekeeping is essential in reducing possible slipping and combustible dust hazards.

HANDLING AND STORAGE: Store away from heat and sources of ignition. Take precautionary measures (bonding and grounding) against static discharges. Collect dust using a vacuum cleaner equipped with a HEPA filter. Take precautions to prevent dust accumulation on surfaces. Good housekeeping is essential to mitigating combustible dust hazard. Do not store with strong oxidizing agents. Provide sufficient general ventilation during and after application. Avoid prolonged or repeated contact with skin, eyes and clothing. After handling this product, wash hands before eating, drinking or smoking.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

GENERAL CONSIDERATIONS:

Consider the potential hazards of this material (see section 3), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting protective equipment.

EYE PROTECTION: Use close-fitting safety glasses, goggles or safety glasses with faceshield to prevent particles from contacting eye and causing particulate irritation.

RESPIRATORY PROTECTION: Not normally needed. Use NIOSH approved respirator for particulates if exposure is unknown or exceeds any permissible limits.

PROTECTIVE GLOVES: Wear impervious gloves.

VENTILATION: General or Local exhaust.

LOCAL EXHAUST: Recommended in closed places.

Use NIOSH/MSHA approved respiratory protection equipment when airborne exposure limits are exceeded (see below). Consult the respirator manufacturer to determine appropriate type of equipment for a given application. Observe respirator use limitations specified by NIOSH/MSHA or the manufacturer. Respiratory protection programs must comply with 29 CFR 1910.134.



VENTILATION NOTES: Provide general or local ventilation to control exposure levels below airborne exposure limits (see below). The use of local mechanical exhaust ventilation is preferred at sources of air contamination such as open process equipment. Consult NFPA Standard 91 for design of exhaust systems.

ACGIH THRESHOLD LIMIT VALUE: 3.0 mg/m³ TWA (respirable) for Calcined Petroleum Coke

PROTECTIVE EQUIPMENT: HMIS PERSONAL PROTECTION: B: Safety Glasses, Gloves

The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Physical State	Solid
Form	Fine Powder
Color	Black/Gray
Odor	Odorless
Odor Threshold	ND
pH	ND
Melting Point/ Freezing Point	Melting Point 2011°C; Sublimation Temperature: 3650 °C (6602°F)
Initial Boiling Point And Boiling Range	ND
Flash Point	ND
Evaporation Rate Upper/Lower	NA
Flammability Or Explosive Limits	ND
Explosive Limit – Lower (%)	ND
Explosive Limit – Upper (%)	ND
Volatiles (By Weight):	NA
Vapor Pressure:	NA
Vapor Density:	NA
Relative Density:	NA
Solubility (Water):	Insoluble
Partition Coefficient (N-Octanol/Water):	NA
Auto-Ignition Temperature:	NA
Decomposition Temperature	NA
Viscosity	NA
Other Information	
Density	ND
Specific Gravity	1.85-2.1



SECTION 10 – STABILITY AND REACTIVITY

STABILITY:	Stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
HAZARDOUS POLYMERIZATION:	Will Not Occur.
CONDITIONS TO AVOID:	Minimize dust generation and accumulation.
INCOMPATIBILITY:	May react dangerously with fluorine and chlorine trifluoride. Avoid strong oxidizing agents.

SECTION 11 – TOXICOLOGICAL INFORMATION

INFORMATION ON LIKELY ROUTES OF EXPOSURE

Symptoms related to the physical, chemical and toxicological characteristics

Dust may irritate the respiratory tract, skin and eyes.

Information on toxicological effects

Acute oral toxicity	ND
Irritant effect on skin	ND
Irritant effect on eyes	ND
Respiratory or Skin Sensitization	Not expected to be a respiratory sensitizer or to cause skin sensitization.
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity

IARC Monographs. Overall Evaluation of Carcinogenicity Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Not listed.

US. National Toxicology Program (NTP) Report on Carcinogens Not listed.

Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.
Specific organ toxicity - Single exposure	Not classified.
Specific organ toxicity - Repeated exposure	Not classified.
Aspiration hazard	Not an aspiration hazard.
Chronic effects	Prolonged overexposure to nuisance dust through inhalation may be harmful, and may result in coughing, dyspnea, black sputum, pneumoconiosis, and impaired pulmonary function.



SECTION 12 – ECOLOGICAL INFORMATION

Data from laboratory studies and from scientific literature is noted below if available.

SECTION 13 – DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: Follow applicable governing regulations for disposal. Product as sold is nonhazardous per RCRA.

SECTION 14 – TRANSPORTATION INFORMATION

The data provided in this section is for information only. The description shown may not apply to all shipping situations. Consult 49 CFR, or appropriate regulations to properly classify your shipment for transportation.

UN/NA NUMBER:	NOT REGULATED
PROPER SHIPPING NAME:	N/A
HAZARD CLASS AND LABEL:	N/A
REPORTABLE QUANTITY:	None
HARMONIZED CODE/TARIFF CODE	2504.90.0000
PACKAGING SIZE:	50# Bags

SECTION 15 – REGULATORY INFORMATION

SARA 311 CATEGORIES:

EPA ACUTE:	No
EPA CHRONIC:	No
EPA IGNITABILITY:	No
EPA REACTIVITY:	No
EPA SUDDEN RELEASE OF PRESSURE:	No
CERCLA RQ VALUE:	None
SARA TPQ:	None
SARA RQ:	None
EPA HAZARD WASTE#:	None
CLEAN AIR:	N/A
CLEAN WATER:	N/A
SARA SECTION 313:	No
NFPA HEALTH:	1
NFPA FLAMMABILITY:	0
NFPA REACTIVITY:	0
DEA Chemical Trafficking Act:	N/A
TSCA STATUS:	All ingredients in this product are on the TSCA Inventory List.



CANADIAN DOMESTIC SUBSTANCES LIST All substances contained in this product are listed on the Canadian Domestic Substances List (DSL) or are not required to be listed.

SECTION 16 – OTHER INFORMATION

SDS Revision Date: January 20, 2020

FOOT NOTES: N/A NOT APPLICABLE
> = GREATER THAN

ND – NO DATA AVAILABLE
< = LESS THAN

REVISION STATEMENT: Changes have been made throughout this Safety Data Sheet. Please read the entire document.

DISCLAIMER:

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