
MATERIAL SAFETY DATA SHEET

1. Identification of substance and of the company

- 1.1 Identification of the substance: DudaLite DW-R10 DryWash Resin
1.2 Use of substance: Purification of biodiesel
1.3 Name of manufacturer: Duda Diesel
7055 Greenbrier Road Bldg A
Madison, AL 35756
Tel: 256-340-4866
Fax: 866-568-3412
Responsible person: Brian Duda
Email: support@dudadiesel.com
1.4 Emergency telephone: 256-340-4866

2. Hazards identification

Emergency overview

- Physical state: amber, light brown, dark brown, gold, black solid bead
- Odor: Not applicable
- Contact with eyes: may cause temporary eye irritation
- Contact with skin: may be slightly irritating to skin
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Low hazard for usual industrial or commercial handling by trained personnel

OSHA regulatory status: This product is not hazardous according to OSHA 29CFR 1910.1200

Potential health effects

Inhalation: limited inhalation hazard at normal work temperatures

Eye contact: may cause temporary eye irritation

Skin contact: may be slightly irritating to skin

Ingestion: under normal conditions of intended use, this material does not pose a risk to health. However, ingestion may cause irritation and malaise

Chronic health effects: no other specific acute or chronic health impact noted.

Target organs: eye/skin

Potential physical/chemical effects: This product is a combustible per NFPA

Environmental effects: The environmental hazard of this product is considered limited

3. Composition/information on ingredients

3.1	Ingredient	Concentration	CAS Number	R Phrases	Symbol
	Sodium polystyrene sulphonate	98-99%	69011-22-9	—	—
	Water	1-2%	7732-18-5	—	—

4. First aid measures

Inhalation: no specific first aid measures noted

Eye contact: any material that contacts the eye should be washed out immediately with water. If possible, remove any contact lenses. Get medical attention if discomfort continues.

Skin contact: Wash skin with soap and water.

Ingestion: immediately rinse mouth and drink plenty of water (200-300ml). Get medical attention if irritation persists.

5. Fire-fighting measures

Flammable properties- NFPA rating fire=1

Extinguishing media: extinguish with foam, carbon dioxide, dry powder or water fog.

Unsuitable extinguishing media: not applicable

Special fire fighting procedures: self contained breathing apparatus and full protective clothing must be worn in case of fire

Unusual fire and explosion hazards: Not available

Hazardous combustion products: Monomers, residual organics, carbon and sulfur oxides

Protective measures: Selection of respiratory protection for fire-fighting: follow the general fire precautions indicated in the workplace.

6. Accidental release measures

Personal precautions:

Keep people away

Spillage causes slippery surfaces

Environmental precautions

Do not allow to enter public sewers and water courses.

Methods of cleaning up:

Sweep up as much as possible and transfer to plastic containers for recovery and disposal.

7. Handling and storage

7.1 Handling

Avoid contact with eyes and prolonged skin contact. See section 8 of the MSDS for Personal protective equipment.

7.2 Storage

Store at temperatures above zero degrees C

Store at temperatures below forty degrees C

Keep in original container

Keep container tightly closed to prevent the absorption of water

Store away from incompatible materials

8. Exposure controls/personal protection

8.1. Exposure limits: no exposure limits noted for substances

8.2 Exposure Controls: provide adequate ventilation

8.2.1 Occupational exposure controls

Respiratory protection: if engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. In the United States of America, if respirators are used, a program must be instituted to assure compliance with OSHA standard 63 FR 1152, January 8, 1998. Respirator type: High efficiency particulate respirator

- –Eye protection: Risk of contact- wear approved safety goggles
- – Hand protection: Risk of contact – Wear protective gloves. Suitable gloves can be recommended by the glove supplier.
- Skin protection: Risk of contact- use skin protection. It is a good industrial hygiene practice to minimize skin contact.

8.2.2. Hygiene measures

-always observe good personal hygiene measures, such as washing after handling the material before eating drinking and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

8.2.3 Environmental exposure controls

- environmental manager must be informed of all major spillages.

9. 9. Physical and chemical properties

9.1 Appearance: Gold, amber, light brown, dark brown, black and green beads

Odor: odorless

Odor threshold: Not available

Physical state: Solid (bead)

pH: neutral aqueous slurry

Melting point: not available

Freezing point: not available

Boiling point: not available

Flash point: not available

Evaporation rate: not available

Flammability (solid, gas): not available

Flammability limit –

Upper flammability limit: not available.

Lower flammability limit: not available

Vapor pressure: not available

Vapor density (air = 1): not available

Specific Gravity: 1.15 to 1.35

Solubility in water: insoluble

Solubility (other): not available

Partition coefficient (nOctanol/water): not available

Auto ignition temperature: not available

Decomposition temperature: not available

10. Stability and reactivity

10.1 Conditions to avoid

Considered stable under normal conditions

Avoid heat

10.2 Materials to avoid

Incompatible with strong oxidizing substances. Contact with strong oxidizers, especially nitric acid, may produce low molecular weight organics that may form explosive mixtures.

10.3 Hazardous decomposition products

At elevated temperatures: Benzene compounds, carbon oxides, styrene, sulfur oxides

10.4 Possibility of hazardous reactions: not available

11. Toxicological information

Acute toxicity: no evidence of acute toxicity
Carcinogenicity: no evidence of carcinogenic effects
Teratogenicity: no evidence of reproductive effects
Mutagenicity: no evidence of mutagenic effects

12. Ecological information

12.1 Ecotoxicity- no data available
12.2 Mobility- The product is insoluble in water and will sediment in water systems
12.3 Persistence and degradability: The product is not readily biodegradable
12.4 Bio-accumulative potential: potential to bio-accumulate is low
12.5 Other adverse effects: no data available

13. Disposal considerations

General information: Dispose of waste and residues in accordance with local authority requirements
Disposal method: no specific disposal method required
Container: Since emptied containers retain product residue, follow label warnings even after container is emptied

14. Transport information

-DOT- not regulated
-TDG – not regulated
-IATA – not regulated
-IMDG- not regulated

15. Regulatory information

Canadian controlled Products Regulations- This product has been classified according to the hazard criteria of the Canadian Controlled Products Regulations Section 33 and the MSDS contains all required information

WHMIS Classification- This is not a WHMIS controlled product

Mexican Dangerous Statement – This product is not dangerous according to Mexican regulations

Applicable International laws and regulations: This substance meets OECD polymer definition and is therefore exempt from REACH registration

Inventory Status – This product or all components are listed or exempt from listing on the following inventory: TSCA, DSL

US Regulations

CERCLA Hazardous Substance List (40 CFR 302.4): not regulated

SARA Title III

-Section 302 Extremely Hazardous Substances (40 CFR 355, Appendix A): Not regulated

Section 311/312 (40 CFR 370): Acute (Immediate) Chronic (delayed) Fire reactive Pressure Generating

Section 313 Toxic Release Inventory (40 CFR 372): Not regulated

Clean Air Act (CAA) Sections 112(R) Accidental Release Prevention (40 CFR 68.130) – not regulated

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)- not regulated

Drug Enforcement Act – not regulated

TSCA

TSCA Section 4(a) Final Test Rules & Testing Consent Orders: Not regulated

TSCA Section 5(a)(2) Final Significant Use Rules (SNURs) (40CFR 721, Subpt. E): not regulated

TSCA Section 5(e) PMN – Substance Consent Orders: not regulated

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D): not regulated

State Regulations

- California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): not regulated
- Massachusetts Right-To-Know List: not regulated
- Michigan Critical Materials List: not regulated
- Minnesota Hazardous Substances List: not regulated
- New Jersey Right-To-Know List: not regulated
- Pennsylvania Right-To-Know List: not regulated
- Rhode Island Right-To-Know List: not regulated

16. Other information

Hazard Ratings
NFPA

Health hazard- 1 ; Fire hazard- 1 ; Instability – 0; Special Hazard – 0
Hazard rating 0- minimal; 1- slight; 2 – moderate; 3 – serious; 4 – severe
NFPA Label colored diamond code: Blue – health; Red – Flammability; Yellow – instability; White – Special hazards

HMIS – Health hazard – 1; Flammability – 1; Physical Hazard – 0; Personal Protection –
Hazard rating: 0 – minimal; 1 – slight; 2 – moderate; 3 – serious; 4 – Severe
HMIS Label colored bar code: Blue – Health; Red – Flammability; Orange – Physical Hazards; White – Special

Relevant R phrases: none

Note:

The information provided in this material safety data sheet is based on current knowledge about the product and current legal requirements and standards. It relates specifically to health, safety and environmental requirements and standards. It may not identify all hazards associated with the product or its uses or misuses. It does not signify any warranty with regard to the properties of the product, and only applies when the product is used for the purposes indicated in section 1. This product is not sold as suitable for other purposes and such other usage may cause risks not mentioned in the safety data sheet.

Date of Revision November 1, 2011