



**MATERIAL SAFETY DATA SHEET**  
*GDiesel™*

**Section 1 – Chemical Product and Company Identification**

**Chemical Identity**

**Product Name:** *GDiesel™*

**Chemical Family:** Aliphatic petroleum hydrocarbon mixture

**Company**

**Manufacturer:** Advanced Refining Concepts LLC  
6195 Ridgeview Court Suite F  
Reno, Nevada 89519-6341

**Emergency Telephone Numbers:**

24-Hour Emergency Phone Number.....775/287-9391

**Revision Date:** March 30, 2009

**Section 2 – Composition/Information or Ingredients**

The specific chemical identity of this mixture is trade secret information and is protected under 29 CFR Part 1910.1200 (i). Disclosure of ingredients shall be provided to medical personnel in the event of a medical emergency.

**Section 3 – Hazards Identification**

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

**Skin:** Contact may cause skin irritation and redness. Long-term exposures may result in drying and cracking of skin.

**Inhalation:** Expected to have low vapor hazard. Vapors may be irritating to the respiratory tract, cause dizziness and headache.

**Ingestion:** May cause nausea and vomiting.

**Target Organ Effects:** Some chains of petroleum distillates have been found to cause skin cancer in mice when repeatedly applied over their life span.

**Carcinogenicity -**                      **NTP:** NO                      **IARC:** NO                      **OSHA:** NO

**Mutagenicity:** Some chains of petroleum distillates have been found to test positive for some mutagenicity tests.

## Section 4 - First Aid Procedures

**Eye:** Flush eyes with clean water for at least 15 minutes. Seek medical attention immediately.

**Skin:** Remove contaminated clothing, and flush skin with soap and water. Seek medical attention immediately.

**Inhalation:** Remove to fresh air. Seek medical attention immediately.

**Ingestion:** Do not induce vomiting; aspiration hazard. Seek medical attention immediately.

## Section 5 - Fire Fighting Measures

**Flash Point:** 48° C, 119° F, Tagliabue Closed Cup

**Autoignition Temperature:** 240° C, 464°F

**Extinguishing Media:** When heated, liquid may generate vapors in sufficient quantity to catch fire. Use foam, CO<sub>2</sub>, Dry Chemical, or Water Fog.

**Fire Fighting Procedures:** Firefighters must wear SCBA's in positive pressure mode. Do not use solid stream of water since it may spread the fire. Water fog spray may be used to keep containers cool. When heated under extreme conditions closed containers may explode from the build up of internal pressure.

**Hazardous Decomposition Products:** Smoke, carbon monoxide, carbon dioxide

## Section 6 – Accidental Release Measures

LIQUID IS COMBUSTIBLE. Shut off all ignition sources. Evacuate area of all unnecessary personnel and notify response personnel. If properly trained, don appropriate PPE, shut off point of release, if feasible, and recover free product. Upright containers immediately or over pack leaking containers.

Do not step in puddles. Use an absorbent material to contain and absorb the spilled product. Place the absorbent material around the perimeter of the release to contain the area first. Then place absorbent onto the released material within the dike area. Let the absorbent material solidify the liquid for removal into a proper drum. Shovel the absorbent with a plastic shovel into the drum. Label the drum appropriately and dispose of according to federal, state, and local regulations. Do not place in regular garbage. Notify appropriate agencies of spill quantities.

Do not let product enter any waterways, drains, streams, ponds, lakes. Do not flush spill area as a means to clean up residue. Product may be toxic to aquatic organisms Contact the National Response Center at 1-800-424-8802 if any product enters the waterways. Contact local and state agencies as appropriate to report all spills.

## Section 7 - Safe Handling & Storage

Keep all containers away from heat, sparks or flames. Keep containers closed at all times when not in use. Keep containers in cool, dry, secured area with proper labels. Empty drums should be completely drained and returned to a drum reconditioner immediately. Wash hands after use.

## Section 8 – Exposure Control/Personal Protective Equipment

As with all chemicals, keep exposures to a minimum, and maintain adequate general ventilation or local exhaust systems to provide proper air movement during routine use.

Wear chemical resistant gloves and safety goggles during handling procedures. During normal use, no special respiratory protection is required. If concentrations accumulate in a poorly ventilated area, use a NIOSH approved respirator for organic vapors. Ensure limitations of respirators are met before use; refer to OSHA 29 CFR 1910.134.

## Section 9 – Physical & Chemical Properties

<b><u>Appearance:</u></b>	Clear bright liquid
<b><u>pH:</u></b>	Not applicable
<b><u>Vapor Pressure:</u></b>	Approximately 13 mm Hg @ 0° C (32° F)
<b><u>Boiling Point:</u></b>	157.6° C, 315.7° F
<b><u>Viscosity:</u></b>	4.111 cst @ -20° C
<b><u>Solubility in Water:</u></b>	Slightly
<b><u>Specific Gravity (Water = 1):</u></b>	0.8158

## Section 10 – Stability & Reactivity

<b><u>Reactivity:</u></b>	This product is stable
<b><u>Incompatibility with Other Materials:</u></b>	Avoid contact with strong oxidizers
<b><u>Conditions to Avoid:</u></b>	Extreme heat, open flames
<b><u>Decomposition:</u></b>	May decompose upon combustion into CO, CO <sub>2</sub> . and smoke
<b><u>Hazardous Polymerization:</u></b>	Will Not Occur

## Section 11 – Toxicological Information

See Section 3 - Hazards Identification.

The mixture has not been tested as a whole. Ingredients of this mixture have indicated relatively low toxicity via the routes of ingestion and inhalation. No other data available.

## Section 12 – Ecological Information

**Environmental Toxicity:** No data available.

**Environmental Fate:** No data available.

## Section 13 – Disposal Considerations

Place contaminated media in container and dispose of in a manner consistent with applicable regulations. A hazardous waste determination will need to be made by the user. Please contact the local authorities to obtain approval for disposal of this material. Do not flush material down the drain, dispose of in the dumpster or leave on the ground.

## Section 14 – Transport Information

### **DOT Basic Description (Domestic Shipping Only):**

Non-bulk containers = are not regulated via HIGHWAY due to the flashpoint > 100°F

Bulk containers: Fully Regulated

Air mode: Fully Regulated

Vessel mode: Fully Regulated

## Section 15 – Regulatory Information

**SARA 311/312 Categories:**

1. Immediate Health Effects:	YES
2. Chronic Health Effects:	YES
3. Fire Hazards:	YES
4. Sudden Release of Pressure Hazard:	NO
5. Reactivity Hazard:	NO

**TSCA:** The ingredients of this product are listed on the TSCA inventory.

**CERCLA:** Petroleum products do not have a reportable quantity. Ingredients that are listed on the toxic chemical inventory are not subject to the release reporting requirements since concentrations are less than the threshold amount.

### **EC Risk Phases:**

R36/38 Irritating to eyes and skin

R51 Toxic to aquatic organisms

R65 Damaging to lungs when swallowed

**EC Safety Phases:**

S39 Wear eye/face protection

S24/25 Avoid contact with skin and eyes

S28 After contact with skin, wash immediately with plenty of soap and water

S62 If swallowed, do not induce vomiting; seek medical advice immediately and show this container or label

**Section 16 – Other Information**

**HMIS HAZARD RATINGS:**

HEALTH	1
FIRE	1
REACTIVITY	0
PPE	A - SAFETY GLASSES

0 = Insignificant

1 = Slight

2 = Moderate

3 = Serious

4 = Extreme

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Revision Date: 3.30.09

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