



MATERIAL SAFETY DATA SHEET

DakotaSyn Full Synthetic 75W-90; 0005

MSDS PREPARATION DATE: 1/6/14

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Information

Product Name: DakotaSyn Full Synthetic 75W-90
 Product Description: Long Drain Full Synthetic Gear Oil
 Intended Use: Lubricating Oil
 Product Code: 0005

Company Identification

Supplier: Diesel Dogs Companies
 2091 Energy Park Drive
 St. Paul, MN, 55108

Supplier General Contact Number: 1-800-437-1802
 Emergency Number: Chemtrec 1-800-424-9300

SECTION 2: HAZARDS IDENTIFICATION

NFPA RATINGS:	Health	1	Flammability	1	Reactivity	0
HMS RATINGS:	Health	1	Flammability	1	Reactivity	0

EMERGENCY OVERVIEW

Color: Yellow
Physical State: Liquid [Clear]
Odor: Mild Sulfur
Signal Word: CAUTION!
Hazard Statement: May cause eye irritation.
Precautions: Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.
OSHA/HCS Status: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

POTENTIAL ACUTE HEALTH EFFECTS

Inhalation: No known significant effects or critical hazards
Ingestion: No known significant effects or critical hazards
Skin: No known significant effects or critical hazards
Eyes: Moderately irritating to eyes

POTENTIAL CHRONIC HEALTH EFFECTS

Chronic Effects: No known significant effects or critical hazards
Carcinogenicity: No known significant effects or critical hazards
Mutagenicity: No known significant effects or critical hazards
Teratogenicity: No known significant effects or critical hazards
Developmental Effects: No known significant effects or critical hazards
Fertility Effects: No known significant effects or critical hazards



SECTION 2: HAZARDS IDENTIFICATION (Continued)

OVER-EXPOSURE SIGNS/SYMPTOMS

Inhalation: No specific data
Ingestion: No specific data
Skin: No specific data
Eyes: Adverse symptoms may include the following: irritation, watering, redness

Medical Conditions aggravated by over-exposure: None Known
See toxicological information (Section 11)

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Location	Name	CAS Number	%
United States	Alkoxylated long-chain alkanol borate	NJRTK-800962-5163	5 – 10
Canada	Alkoxylated long-chain alkanol borate	HMIRC-H385-2	5 - 10

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

SECTION 4: FIRST AID MEASURES

EYE CONTACT

Immediately flush eyes with plenty of water for at least 20 minutes, occasionally lifting the upper and lower eyelids. Get medical attention if symptoms occur.

SKIN CONTACT

After contact with skin, wash immediately with plenty of soap and water. Get medical attention if symptoms occur.

INHALATION

Move exposed person to fresh air. Get medical attention if symptoms occur.

INGESTION

Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention if symptoms occur.

NOTES TO PHYSICIAN

No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

SECTION 5: FIRE FIGHTING MEASURES

FLAMMABILITY OF THE PRODUCT

No specific fire or explosion hazard

EXTINGUISHING MEDIA

Suitable: Use an extinguishing agent suitable for the surrounding fire.
Not Suitable: None known

HAZARDOUS DECOMPOSITION PRODUCTS

Decomposition products may include the following materials: Carbon Dioxide, Carbon Monoxide



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SECTION 5: FIRE FIGHTING MEASURES (Continued)

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Put on appropriate personal protective equipment (see Section 8).

ENVIRONMENTAL PRECAUTIONS

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

METHODS FOR CLEANING SPILLS

Small Spill: Absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large Spill: Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 for emergency contact information and section 13 for waste disposal.

SECTION 7: HANDLING AND STORAGE

HANDLING

Put on appropriate personal protective equipment (see Section 8). Avoid contact with used product. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Avoid contact with eyes, skin and clothing. Empty containers retain product residue and can be hazardous. Do not reuse container.

STORAGE

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Under conditions which may generate mists, the following exposure limits are recommended:

ACGIH TLV TWA: 5 mg/m³ ; STEL: 10 mg/m³

Consult local authorities for acceptable exposure limits.

RECOMMENDED MONITORING PROCEDURES

Personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.



SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (Continued)

ENGINEERING MEASURES

No special ventilation requirements. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

HYGIENE MEASURES

Ensure that eyewash stations and safety showers are close to the workstation location. Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

RESPIRATORY PROTECTION

Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Not required under normal conditions of use. Recommended: Wear an appropriate NIOSH approved respirator if concentration levels exceed the safe exposure limits.

HAND PROTECTION

Use gloves appropriate for work or task being performed. Not required under normal conditions of use. Recommended: Natural rubber (latex).

EYE PROTECTION

Safety eyewear should be used when there is a likelihood of exposure. Not required under normal conditions of use. Recommended: Safety glasses with side shields.

SKIN PROTECTION

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. No special protective clothing is required. Recommended: Coveralls.

ENVIRONMENTAL EXPOSURE CONTROLS

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Typical physical and chemical properties are given below. Contact the Supplier for additional information.

GENERAL INFORMATION

Physical State	Liquid [Clear]
Color	Yellow
Odor	Mild Sulfur



SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (Continued)

IMPORTANT HEALTH, SAFETY, AND ENVIRONMENTAL INFORMATION

Relative Density (at 15°C)	0.8789
Flash Point [Method]	212°C (413.6°F) [Cleveland Open Cup]
Flammable Limits (Approximate volume % in air)	N/A
Autoignition Temperature	N/A
Boiling Point / Range	N/A
Vapor Density (Air = 1)	N/A
Vapor Pressure	N/A
Evaporation Rate (N-Butyl Acetate = 1)	N/A
pH	N/A
Solubility in Water	N/A
Volatility	N/A
Viscosity (Kinematic)	1.309 cm ² /s (130.9 cSt) at 40°C 0.167 cm ² /s (16.7 cSt) at 100°C
Melting Point/Pour Point	-51°C (-59.8°F)

SECTION 10: STABILITY AND REACTIVITY

CHEMICAL STABILITY: The product is stable

CONDITIONS TO AVOID: No specific data

MATERIALS TO AVOID: Reactive or incompatible with the following materials: oxidizing materials

HAZARDOUS DECOMPOSITION PRODUCTS: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

POSSIBILITY OF HAZARDOUS REACTIONS: Under normal conditions of storage and use, hazardous reactions will not occur.

HAZARDOUS POLYMERIZATION: Under normal conditions of storage and use, hazardous polymerization will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

ACUTE TOXICITY: No specific data.

CHRONIC TOXICITY: No specific data

SECTION 12: ECOLOGICAL INFORMATION

ENVIRONMENTAL EFFECTS: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.



SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL

The generation of waste should be avoided or minimized wherever possible. This material and its container must be disposed of in a safe way. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Empty containers or liners may retain some product residues. Dispose of surplus and nonrecyclable products via a licensed waste disposal contractor.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

SECTION 14: TRANSPORT INFORMATION

LAND (DOT): Not Regulated for Land Transport

LAND (TDG): Not Regulated for Land Transport

SEA (IMDG): Not Regulated for Sea Transport according to IMDG-Code

AIR (IATA): Not Regulated for Air Transport

SECTION 15: REGULATORY INFORMATION

UNITED STATES

HCS Classification: Irritating material

US Federal Regulations:

United States inventory (TSCA 8b): Not determined.

SARA 302/304/311/312 extremely hazardous substances: No products were found.

SARA 302/304 emergency planning and notification: No products were found.

SARA 302/304/311/312 hazardous chemicals: No products were found.

SARA 311/312 MSDS distribution - chemical inventory - hazard identification: No products were found.

Clean Air Act (CAA) 112 accidental release prevention: No products were found.

STATE REGULATIONS

Massachusetts: None of the components are listed.

New York: None of the components are listed.

New Jersey: None of the components are listed.

Pennsylvania: None of the components are listed.

CALIFORNIA PROP. 65: No products were found.



SECTION 15: REGULATORY INFORMATION (Continued)

CANADA

WHMIS (Canada): Class D-2B: Material causing other toxic effects (Toxic).

Canadian Lists:

CEPA Toxic substances: None of the components are listed.

Canadian ARET: None of the components are listed.

Canadian NPRI: None of the components are listed.

Alberta Designated Substances: None of the components are listed.

Ontario Designated Substances: None of the components are listed.

Quebec Designated Substances: None of the components are listed.

Canada Inventory: Not determined.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

INTERNATIONAL REGULATIONS

International Lists:

Australia inventory (AICS): Not determined.

China inventory (IECSC): Not determined.

Japan inventory: Not determined.

Korea inventory: Not determined.

New Zealand Inventory of Chemicals (NZIoC): Not determined.

Philippines inventory (PICCS): Not determined.

SECTION 16: OTHER INFORMATION

UNITED STATES

Label Requirements: May cause eye irritation.

Disclaimer:

The information and recommendations contained within this document are believed by Diesel Dogs to be accurate and reliable as of the date prepared. The information and recommendations are offered for the user's consideration and analysis and in no way guarantee the chemical specifications for the specified product. It is solely the responsibility of the user to determine safe conditions for use of this product and to assume liability for any loss, damage or expense arising out of the product's improper use. The user should consider the information in this document in the context of how the selected product will be handled and used in conjunction with other products. It is the user's responsibility to determine that the product is suitable for the intended use.

Appropriate warnings and safe-handling procedures should be provided to all handlers and users. Diesel Dogs assumes no responsibility for any damage or injury resulting from abnormal use or from any failure to adhere to recommended practices within this document.