



MATERIAL SAFETY DATA SHEET

DakotaSyn Full Synthetic 5W-40 CJ-4; 0005

MSDS PREPARATION DATE: 1/6/14

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Information

Product Name: DakotaSyn Full Synthetic 5W-40 CJ-4
Product Description: Heavy Duty Full Synthetic Diesel 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	0	Flammability	1	Reactivity	0
HMS RATINGS:	Health	0	Flammability	1	Reactivity	0

EMERGENCY OVERVIEW

Color: Brown

Physical State: Liquid [Clear]

Odor: Mild/ Hydrocarbon

Hazard Statement: Not expected to produce significant adverse health effects when the recommended instructions for use are followed.

Precautions: No known significant effects or critical hazards. Avoid prolonged contact with eyes, skin and clothing.

OSHA/HCS Status: While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available for employees and other users of this product.

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: No known significant effects or critical hazards

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: No specific data

Medical Conditions aggravated by over-exposure: Not Known
See toxicological information (Section 11)

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

There are no 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

No specific data

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS

No special protection is required



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. 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.

ENGINEERING MEASURES

No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

HYGIENE MEASURES

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.



SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (Continued)

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.

HAND PROTECTION

Use gloves appropriate for work or task being performed. Not required under normal conditions of use.
Recommended: Disposable vinyl gloves

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

No special protective clothing is required.

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	Brown
Odor	Mild / Hydrocarbon

IMPORTANT HEALTH, SAFETY, AND ENVIRONMENTAL INFORMATION

Relative Density (at 15°C)	0.8478 to 0.8602
Flash Point [Method]	228 to 236°C (442.4 to 456.8°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)	0.91 to 1.104 cm ² /s (91 to 110.4 cSt) at 40°C 0.149 to 0.154 cm ² /s (14.9 to 15.4 cSt) at 100°C
Melting Point/Pour Point	-27°C (-16.6°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: Not established

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL

The generation of waste should be avoided or minimized wherever possible. 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 non-recyclable 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: Not regulated

US Federal Regulations:

United States inventory (TSCA 8b): All components are listed or exempted.

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 Water Act (CWA) 307: Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts

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: The following components are listed: Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts

Pennsylvania: The following components are listed: Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts

CALIFORNIA PROP. 65: No products were found

CANADA

WHMIS (Canada): Not controlled under WHMIS (Canada).

Canadian Lists:

CEPA Toxic substances: None of the components are listed.

Canadian ARET: None of the components are listed.

Canadian NPRI: The following components are listed: Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts

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: All components are listed or exempted.

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): All components are listed or exempted.

China inventory (IECSC): All components are listed or exempted.

Japan inventory: Not determined.

Korea inventory: All components are listed or exempted.

New Zealand Inventory of Chemicals (NZIoC): All components are listed or exempted.

Philippines inventory (PICCS): All components are listed or exempted.



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SECTION 16: OTHER INFORMATION

UNITED STATES

Label Requirements: Not expected to produce significant adverse health effects when the recommended instructions for use are followed.

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.