

# Material Safety Data Sheet

Doosan Infracore Portable Power  
1293 Glenway Drive  
Statesville, NC 28625

## Doosan Protec Engine Fluid

### Product Description:

Chemical/Trade Name:

Chemical family/Classification:

### Transportation Emergency Response

CHEMTREC: (800) 424-9300 or

Doosan Portable Power: (800) 633-5206

## SECTION 1 COMPOSITION / INFORMATION ON INGREDIENTS

**Chemical names and synonyms:** Severe treat min. oils and additives

**Ingredients considered hazardous to health:** This product is not formulated to contain ingredients which have exposure limits established by U.S. agencies. It is not hazardous to health as defined by the European Union Dangerous Substances/Preparations Directives. See Section 15 for a regulatory analysis of the ingredients.

## SECTION 2 HAZARD IDENTIFICATION

**U.S. OSHA Hazard Communication Standard:** Product assessed in accordance with OSHA 29 CFR 1910.1200 and determined not to be hazardous.

**Emergency Response Data:** Brown liquid

**DOT ERG No.:** N/A

## SECTION 3 FIRST AID MEASURES

**Eye Contact:** Flush thoroughly with water. If irritation occurs, call a physician.

**Skin Contact:** Wash contact areas with soap and water.

**Inhalation:** Not expected to be a problem.

**Ingestion:** Not expected to be a problem. However, if greater than ½ liter (pint) ingested, seek medical attention.

## SECTION 4 FIRE FIGHTING MEASURES

**Special Fire Fighting Procedures:** Water of foam may cause frothing. Use water to keep fire exposed containers cool. Water spray may be used to flush spills away from exposure. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply.

**Special Protective Equipment:** For fires in enclosed areas, fire fighters must use self-contained breathing equipment.

**Flammable Limits:** LEL: NA UEL: NA

**NFPA Hazard ID:** Health: 0 Flammability: 1 Reactivity: 0

## SECTION 5 ACCIDENTAL RELEASE MEASURES

**Notification Procedures:** Report spills as required to appropriate authorities. U.S. Coast Guard regulations require immediate reporting of spills that could reach any waterway including intermittent dry creeks.

Report spill to Coast Guard Toll free number: (800) 424-8802  
In case of accident or road spill notify CHEMTREC: (800) 424-9300

**Procedures if Material is Released or Spilled:** Absorb on fire retardant treated sawdust, diatomaceous earth, etc. Shovel up and dispose of at an appropriate waste disposal facility in accordance with current applicable laws and regulations, and product characteristics at time of disposal

**Environmental Precautions:** Prevent spills from entering storm sewers or drains and contact with soil.

## SECTION 6 HANDLING AND STORAGE

**Handling:** No special precautions are necessary beyond normal good hygiene practices.

**Storage:** Do not store in open or unlabelled containers. Store away from strong oxidizing agents or combustible material.

## SECTION 7 EXPOSURE CONTROL / PERSONAL PROTECTION

**Eye Protection:** Normal industrial eye protection practices should be employed.

**Skin Protection:** No special equipment required. However, good personal hygiene practices should always be followed.

**Exposure Limits:** This product does not contain any components which have recognized exposure limits. However, an exposure limit of 5.00 mg/m<sup>3</sup> is suggested for oil mist.

## SECTION 8 PHYSICAL AND CHEMICAL PROPERTIES

Typical physical properties are given below. Consult Product Data Sheet for specific details

<b>Appearance:</b>	Liquid
<b>Color:</b>	Brown
<b>Odor:</b>	Mild
<b>Odor Threshold-ppm:</b>	NE
<b>pH:</b>	NA
<b>Boiling Point:</b>	> 316°C (600°F)
<b>Melting Point:</b>	NA
<b>Flash Point C(F):</b>	> 215°C (419°F) (ASTM D-92)
<b>Flammability:</b>	NE
<b>Auto Flammability:</b>	NE
<b>Explosive Properties:</b>	NA
<b>Oxidizing Properties:</b>	NA
<b>Vapor Pressure-mmHg 20°C:</b>	< 0.1
<b>Vapor Density:</b>	NE
<b>Evaporation Rate:</b>	NE
<b>Relative Density, 15/4°C:</b>	0.866
<b>Solubility in Water:</b>	Negligible
<b>Partition Coefficient:</b>	> 3.5
<b>Viscosity at 40°C, cSt:</b>	105.8
<b>Viscosity at 100°C, cSt:</b>	15.0
<b>Pour Point C(F):</b>	< -27°C (-16°F)
<b>Freezing Point C(F):</b>	NE

**Volatile Organic Compound:** NE  
**NA = Not Applicable**      **NE = Not Established**      **D = Decomposes**

For further technical information, contact your marketing representative

### SECTION 9 STABILITY AND REACTIVITY

**Stability (Thermal, Light, Etc.):** Stable  
**Conditions to Avoid:** Extreme Heat  
**Incompatibility (Materials to Avoid):** Strong Oxidizers  
**Hazardous Decomposition Products:** Carbon Monoxide, Metal Oxides, Elemental Oxides  
**Hazardous Polymerization:** Will not occur

### SECTION 10 DISPOSAL CONSIDERATIONS

**Waste Disposal:** Product is suitable for burning in an enclosed, controlled burner for fuel value or disposal by supervised incineration. In addition, the product is suitable for processing by an approved recycling facility or can be disposed of at an appropriate government waste disposal facility. Use of these methods is subject to user compliance with applicable laws and regulations and consideration of product characteristics at time of disposal.

**RCRA Information:** The unused product, in our opinion, is not specifically listed by the EPA as a hazardous waste (40 CFR, Part 261D), nor is formulated to contain materials which are listed hazardous wastes.

### SECTION 11 REGULATORY INFORMATION

**Governmental Inventory Status:** All components comply with TSCA, EINECS/ELINCS, AICS, MITI, and DSL.

**EU Labeling:** EU labeling not required

**U.S. Superfund Amendments and Reauthorization act (SARA) Title III:** This product contains no "EXTREMELY HAZARDOUS SUBSTANCES".

**SARA:** (311/312) REPORTABLE HAZARD CATEGORIES: None

This product contains no chemicals subject to the supplier notification requirements of SARA (313) toxic release program.

The following product ingredients are cited on the lists below:

CHEMICAL NAME:	CAS NUMBER	LIST CITATIONS
ZINC (Element Analysis) (0.13%)	7440-66-6	22
CHLORINE (Elemental Analysis) (0.02%)	7782-50-5	22

#### REGULATORY LISTS SEARCHED

1 = ACGHI ALL	8 = IARC 2B	15 = TSCA 12b	22 = MI 293
2 = ACGIH A1	9 = OSHA CARC	16 = CA P65 CARC	23 = MN RTK
3 = ACGIH A2	10 = OSHA Z	17 = CA P65 REPRO	24 = NJ RTK
4 = NTP CARC	11 = TSCA 4	18 = CA RTK	25 = NJ RTK
5 = NTP SUS	12 = TSCA 5a2	19 = FL RTK	26 = RI RTK
6 = IARC 1	13 = TSCA e	20 = IL RTK	
7 = IARC 2A	14 = TSCA 6	21 = LA RTK	

**Code Key:** CARC= Carcinogen      SUS= Suspected Carcinogen      REPRO= Reproductive

The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.