

# Material Safety Data Sheet

Doosan Infracore Portable Power  
1293 Glenway Drive  
Statesville, NC 28625

## Doosan STP® Oil Treatment

**Product Description:** Oil additive

Part Number: 36870418

Formula: RM-3579, RM-3935

### Transportation Emergency Response

CHEMTREC: (800) 424-9300

Doosan Portable Power: (800) 633-5206

## SECTION 1 COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS MATERIALS:					
MATERIAL	%	CAS#	EXPOSURE LIMIT	SOURCE	
Severely Refined Mineral Oil	80-100	Proprietary	5 mg/m <sup>3</sup>	(3)	
Zinc Compounds	1-5	Proprietary	Non Established	(3)	

None of the ingredients is listed as a carcinogen or potential carcinogen by IARC, NTP or OSHA.

The Permissible Exposure Limits (PEL) reported above are the pre- 1989 limits that were reinstated by OSHA following a decision by the 11<sup>th</sup> Circuit Court of Appeals. These PELs are being enforced by Federal OSHA . Be aware that more restrictive limits may be enforced by some states. Doosan recommends that the lower exposure limits be observed as reasonable worker protection.

The source for exposure limits listed above are:

1. OSHA Permissible Exposure Limit (PEL)
2. ACGIH Threshold Limit Value (TLV)
3. Both OSHA PEL and ACGIH TLV
4. Recommended by the manufacturer

## SECTION 2 HAZARDS IDENTIFICATION

### PRINCIPLE HAZARDS: WARNING

- Amber or dark brown liquid with a mild petroleum odor.
- Accidental ingestion of this material may cause gastrointestinal disturbances including irritation, nausea, vomiting and diarrhea.
- Aspiration from ingestion may cause lipid pneumonia.
- Breathing high concentrations of vapors may cause respiratory irritation and central nervous system effects including headache, nausea, and drowsiness.
- May cause eye and skin irritation.

See Section 10 for complete health hazard information

**KEEP OUT OF REACH OF CHILDREN**

### SECTION 3 FIRST AID MEASURES

**Swallowing:** Get medical attention by calling Poison Control or hospital emergency room. If medical advice cannot be obtained, then take the person and product to the nearest medical treatment center or hospital. Never give anything by mouth to a person who is unconscious or drowsy.

**Skin:** Remove contaminated clothing. Wash all affected and exposed areas with soap and water. If irritation or redness persists seek medical attention.

**Inhalation:** If symptoms of exposure develop, remove fresh air. If breathing becomes difficult, administer oxygen. Administer artificial respiration if breathing stops. Seek medical attention.

**Eyes:** Exposed eyes should be immediately flushed with copious amounts of water using a steady stream for a minimum of 15 minutes. Seek medical attention.

**Notes to Physician:** There is no specific antidote. Treatment of overexposure should be directed at the control symptoms and the clinical conditions. If this product is aspirated following ingestion, it may lead to lipid pneumonia.

### SECTION 4 FIRE-FIGHTING MEASURE

**Flash Point (Method) :** 374°F (190°C) COC  
386°F (195°C) PMCC

**Upper Flammable Limit:** Not determined

**Lower Flammable Limit:** Not determined

**Extinguishing Media:** Use foam, carbon dioxide or dry chemical.

**Special Fire-Fighting Procedures:** Use self-contained breathing apparatus and full protective clothing. Use water to cool fire-exposed containers. Material may float on water and spread fire.

**Unusual Fire and Explosion Hazards:** The vapor space in closed containers may contain hydrogen sulfide, alkyl mercaptans, sulfides and oxides of nitrogen, sulfur, or phosphorous.

**Auto Ignition Temp:** Not determined

**Explosion Data:** Not determined

### SECTION 5 ACCIDENTAL REALEASE MEASURES

**Spill:** Ventilate area. Wear appropriate personal protective equipment. Avoid breathing vapor. Collect material with suitable absorbent material and shovel into appropriate container for disposal. Prevent product from entering sewer or waterways.

### SECTION 6 HANDLING AND STORAGE

**Handling Procedures:** Avoid contact with eyes, skins and clothing. Wash exposed skin with soap and water after use. Avoid breathing vapors and mists. Use only with adequate ventilation. Handling temperatures should not exceed 176°F (80°C).

**Storage Procedures:** Keep storage container closed. Store in cool, dry, well ventilated area. Product may decompose to toxic products if stored above 113°F (45°C) for prolonged periods or if heat sources above 250°F (121°C) are used.

### SECTION 7 EXPOSURE CONTROLS/PERSONAL PROTECTION

**Ventilation Procedures:** General ventilation should be adequate for normal use. For operations where the TLV may be exceeded, mechanical ventilation such as local exhaust may be needed to maintain exposure levels below applicable limits.

**Hand Protection:** Impervious gloves such as nitrile are recommended for operations which may result in skin contact.

**Eye Protection:** Safety glasses, chemical safety goggles or face shield is recommended to prevent eye contact.

**Respiratory Protection:** None needed under normal use conditions. For operations where the TLV may be

exceeded, a NIOSH/MSHA approved supplied air respirator is recommended. Equipment selection depends on contaminant type and concentration, select in accordance with 29 CFR 1910.134 and good industrial hygiene practice. For fire-fighting, use self contained breathing apparatus.

**Clothing Recommendation:** Protective clothing if needed to avoid prolonged/repeated skin contact. Suitable washing and eye flushing facilities should be available in the work area. Contaminated clothing should be removed and laundered or dry-cleaned before re-use.

## SECTION 8 PHYSICAL AND CHEMICAL PROPERTIES

<b>Vapor Pressure:</b>	Not determined
<b>pH:</b>	Not determined
<b>Specific Gravity:</b>	088 @ 15.6°C
<b>Water Solubility:</b>	Insoluble
<b>Percent Volatile:</b>	Not determined
<b>Vapor Density:</b>	Not determined
<b>Evaporation Rate:</b>	Not determined
<b>Odor:</b>	Mild petroleum odor
<b>Appearance:</b>	Dark brown to amber liquid
<b>Viscosity:</b>	5200-6340 cSt @ 40°C
<b>Boiling Point:</b>	Not determined
<b>Freezing Point:</b>	Not applicable

## SECTION 9 STABILITY AND REACTIVITY

**Stability:** Stable

**Incompatibility:** Oxidizing agents and reducing agents.

**Conditions to avoid:** Avoid excessive heat for prolonged periods.

**Polymerization:** Will not occur.

**Hazardous Decomposition:** Heating will generate toxic and flammable hydrogen sulfide. Burning can produce carbon monoxide, carbon dioxide, aldehydes, hydrogen sulfide, alkyl mercaptans, sulfides and oxides of nitrogen, sulfur, or phosphorous.

## SECTION 10 TOXICOLOGICAL INFORMATION

**Oral Toxicity:** Swallowing large amounts may cause gastrointestinal disturbances including abdominal discomfort, belching, nausea and diarrhea. Aspiration may lead to lipid pneumonia.

**Eye Irritation:** May cause eye irritation with tearing, reddening and swelling of the conjunctiva.

**Skin Irritation:** May cause irritation, seen as localized redness and swelling.

**Dermal Toxicity:** No evidence of adverse effects from available information.

**Inhalation Toxicity:** Excessive inhalation of vapor or mist may cause irritation of the nose and throat and central nervous system effects including headache, nausea and drowsiness. The release of hydrogen sulfide gas in various concentrations may cause irritation of the eyes and respiratory tract, headache, dizziness, nausea and drowsiness. Exposure to high concentrations of hydrogen sulfide may be fatal.

**Acute Toxicity Values:** Product: No data available.

**Sensitization:** This product is not expected to be human skin sensitizer.

**Chronic Toxicity:** Prolonged or repeated contact with this product may possible lead to irritation and dermatitis.

**Medical Conditions Aggravated by Exposure:** Individuals with preexisting skin disease may be at increased risk from exposure to this product.

**Carcinogenicity:** None of the components of this product is listed as a carcinogen or suspected carcinogen by IARC, NTP or OSHA.

**Mutagenicity:** No evidence of mutagenicity from available data.

**Reproductive Toxicity and Teratogenicity:** No evidence of adverse reproductive effects from available data.

## SECTION 11 ECOLOGICAL INFORMATION

**Aquatic/Terrestrial Toxicity Environmental Fate:** No data available at this time.

## SECTION 12 DISPOSAL CONSIDERATIONS

**Waste Disposal:** Dispose in accordance with federal, state and local regulations.

## SECTION 13 TRANSPORT INFORMATION

**U.S. DOT Non-Bulk Shipping Description:** None- not regulated

**ID NUMBER:** None  
**HAZARD CLASS:** None  
**PACKING GROUP:** None  
**LABEL :** None  
**PLACARDS:** None

**IMDG Code Shipping Description:** None- not regulated

**ID NUMBER:** None  
**HAZARD CLASS:** None  
**PACKING GROUP:** None  
**LABEL:** None  
**PLACARDS:** None

**AIR- IATA Shipping Description:** None- not regulated

**ID NUMBER:** None  
**HAZARD CLASS:** None  
**PACKING GROUP:** None  
**LABEL:** None  
**PLACARDS:** None

## SECTION 14 REGULATORY INFORMATION

**U.S. TSCA Inventory/ other TSCA Regulations:** All of the components of this product are listed on the TSCA inventory. This product is subject to export notification.

**SARA EXT. HAZ. SUBST.:** None.

**SARA SECTION 313:** This product contains the following toxic chemicals subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and reauthorization Act of 1986 and 40 CFR Part 372 (SARA 313- Toxic Chemical Release Reporting).

CHEMICAL NAME	CAS#	Weight %
Zinc Compounds	Proprietary	1-5

**CERCLA Hazardous Substances (Section 103)/RQ:** This product is not subject to CERCLA reporting requirements, however, many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

**California Proposition 65:** This product does not contain chemicals regulated under California Proposition 65.

**EEC EINECS:** All of the ingredients are listed on the EINECS inventory.

**Canada:** All of the components of this product are listed on the Canadian Domestic Substances List (DSL).

**Japan MTI:** All of the ingredients of this product are listed on the Japanese Existing and New Chemical Substances (MITI) List.

**Australia:** All of the ingredients of this product are listed on the Australian Inventory of Chemical Substances.

## SECTION 15 OTHER INFORMATION

<b>NFPA CODE:</b>	<b>Health: 1</b>	<b>Fire: 1</b>	<b>Reactivity: 0</b>
<b>HMIS CODE:</b>	<b>Health: 1</b>	<b>Fire: 1</b>	<b>Reactivity: 0</b>
<b>Precautionary Labels:</b>	Observe all requirements of plant, company or governmental regulations. "Empty" containers retain product residue and can be hazardous. Keep out of reach of children. Do not take internally.		
<b>Revision Indicators:</b>	<b>Supersedes:</b> December 10, 1995 <b>Revised Sections:</b> Re-Formulated <b>Product- Revised Section:</b> 1, 2, 3, 5, 7, 9, 10, 14, 15, 16		
<b>General:</b>	This MSDS is directed to professional users and bulk handlers of the product. Consumer products are labeled in accordance with Federal Hazardous Substances Act regulations.		

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**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.**