



Doosan Infracore
Portable Power
1293 Glenway Drive,
Statesville, NC 28625

Material Safety Data Sheet

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Doosan – XHP 605 Compressor Fluid

Product Description:

A hydrocarbon based synthetic lubricant designed for use in applications operating above 300psi. Doosan item numbers: 22252076 (5 gallon), 22252050 (55 gallon), and 22252068 (220 gallons).

Transportation Emergency Response

CHEMTREC: (800) 424-9300 OR (703) 527-3887
Doosan Portable Power: (800) 633- 5206

SECTION 1 COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENTS	CAS NUMBER	AMOUNT
Synthetic hydrocarbons	64742-54-7	80-100% weight

SECTION 2 HAZARDS IDENTIFICATION

IMMEDIATE HEALTH EFFECTS

Eye: Not expected to cause prolonged or significant eye irritation

Skin: Contact with the skin is not expected to cause prolonged or significant irritation. Not expected to be harmful to internal organs if absorbed through the skin. High-Pressure Equipment Information: Accidental high-velocity injection under the skin of materials of this type may result in serious injury. Seek medical attention at once should an accident like this occur. The initial wound at the injection site may not appear to be serious at first; but, if left untreated, could result in disfigurement or amputation of the affected part.

Ingestion: Not expected to be harmful if swallowed.

Inhalation: Not expected to be harmful if inhaled. Contains a petroleum-based mineral oil. May cause respiratory irritation or other pulmonary effects following prolonged or repeated inhalation of oil mist at airborne levels above the recommended mineral oil mist exposure limit. Symptoms of respiratory irritation may include coughing and difficulty breathing.

SECTION 3 FIRST AID MEASURES

Eye: No specific first aid measures are required. As a precaution, remove contact lenses, if worn, and flush eyes with water.

Skin: No specific first aid measures are required. As a precaution, remove clothing and shoes if contaminated. To remove the material from skin, use soap and water. Discard contaminated clothing and shoes or thoroughly clean before reuse.

Ingestion: No specific first aid measures are required. Do not induce vomiting. As a precaution, get medical advice.

Inhalation: No specific first aid measures are required. If exposed to excessive levels of material in the air, move the exposed person to fresh air. Get medical attention if coughing or respiratory discomfort occurs.

SECTION 4 FIRE FIGHTING MEASURES

Leaks/ruptures in high pressure system using materials of this type can create a fire hazard when in the



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vicinity of ignition sources (eg. Open flame, pilot lights, sparks, or electric arcs).

FIRE CLASSIFICATION:

OSHA Classification (29) CFR 1910. 1200): Not classified by OSHA as flammable or combustible.

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

FLAMMABLE PROPERTIES:

Flashpoint: (Cleveland open Cup) 230 °C (446 °F) (MIN)

Auto ignition: No data available

Flammability (Explosive) limits (% by volume in air): Lower: N/A Upper: N/A

EXTINGUISHING MEDIA: Use water fog, foam, dry chemical or carbon dioxide (CO₂) to extinguish flames.

PROTECTION OF FIRE FIGHTERS:

Fire Fighting Instructions: This material will burn although it is not easily ignited. For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus.

Combustion Products: Highly dependent on combustion conditions. A complex mixture of airborne compounds will be evolved when this material undergoes combustion.

SECTION 5 ACCIDENTAL RELEASE MEASURES

Protective Measures: Eliminate all sources of ignition in vicinity of spilled material.

Spill management: Stop the source of the release if you can do it without risk. Contain release to prevent further contamination of soil, surface water or groundwater. Clean up spill as soon as possible, observing precautions in Exposure Controls/personal Protection. Use appropriate techniques such as applying non-combustible absorbent materials or pumping. Where feasible and appropriate, remove contaminated soil. Place contaminated materials in disposable containers and dispose of in a manner consistent with applicable regulations.

Reporting: Report spills to local authorities and/or the U.S. Coast Guard's National Response Center at (800) 424-8802 as appropriate or required.

SECTION 6 HANDLING AND STORAGE

Precautionary Measures: DO NOT USE IN HIGH PRESSURE SYSTEMS in the vicinity of flames, sparks and hot surfaces. Use only in well ventilated areas. Keep container closed.

General Handling Information: Avoid contaminating soil or releasing this material into sewage and drainage systems and bodies of water.

Static Hazard: Electrostatic charge may accumulate and create a hazardous condition when handling this material. To minimize this hazard, bonding and grounding may be necessary but may not, by themselves, be sufficient. Review all operations which have the potential of generating and accumulating an electrostatic charge and/or a flammable atmosphere (including tank and container filling, splash filling, tank cleaning, sampling, gauging, switch loading, filtering, mixing, agitation, and vacuum struck operations) and use appropriate mitigating procedures. For more information, refer to OSHA Standard 29 CFR 1910.106, 'Flammable and Combustible Liquids', National Fire Protection Association (NFPA 77), 'Recommended Practice on Static Electricity', and/or the American Petroleum Institute (API) Recommended Practice 2003, 'Protection Against Ignitions Arising Out of Static, Lightning, and Stray Currents'.

Container warnings: Container is not designed to contain pressure. Do not use pressure to empty container or it may rupture with explosive force. Empty containers retain product residue (solid, liquid, and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. They may explode and cause injury or death. Empty containers should be completely drained, properly closed, and promptly returned to a drum



reconditioner or disposed of properly.

SECTION 7 EXPOSURE CONTROL / PERSONAL PROTECTION

GENERAL CONSIDERATIONS:

Special Notes: Do not use in breathing air apparatus or medical equipment. Consider the potential hazards of this material (see section 2), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

ENGINEERING CONTROLS:

Use in well-ventilated area.

PERSONAL PROTECTIVE EQUIPMENT

Eye/Face Protection: no special eye protection is normally required. Where splashing is possible, wear safety glasses with side shields as a good safety practice.

Skin Protection: No special protective clothing is normally required. Where splashing is possible, select protective clothing depending on operations conducted physical requirements and other substances in the workplace. Suggested materials for protective gloves include: Nitrile Rubber, Silver Shield, Viton.

Respiratory Protection: No respiratory protection is normally required. If user operations generate an oil mist, determine if airborne concentrations are below the occupational exposure limit for mineral oil mist. If not, wear an approved respirator that provides adequate protection from the measured concentrations of this material. For air-purifying respirators use a particulate cartridge. Use a positive pressure air-supplying respirator in circumstances where air-purifying respirators may not provide adequate protection.

Component	Agency	TWS	STEL	Ceiling	Notation
Synthetic hydrocarbons	ACGIH	5 mg/m ³	10 mg/m ³	--	--
Synthetic hydrocarbons	OSHA Z-1	5 mg/m ³	--	--	--

SECTION 8 PHYSICAL AND CHEMICAL PROPERTIES

Attention: the data below are typical values and do not constitute a specification.

Color: Color to yellow

Physical State: Liquid

Odor: Petroleum odor

pH: Not Applicable

Vapor Pressure: <0.01 mm Hg @ 37.8 °C (100 °F)

Vapor Density (Air =1): >1

Boiling Point:: >288 °C (550.4 °F)

Solubility: Soluble in hydrocarbons; insoluble in water

Freezing Point: Not Applicable

Specific Gravity: 0.86 @ 15.6 °C (60.1 °F) / 15.6 °C (60.1 °F)

Viscosity: 61.2 cSt @ 40 °C (104 °F) (MIN)

SECTION 9 STABILITY AND REACTIVITY

Chemical Stability: This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

Incompatibility With Other Materials: may react with strong acids or strong oxidizing agents, such as



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chlorates, nitrates, peroxides, etc.

Hazardous Decomposition Products: None known (None expected)

Hazardous Polymerization: Hazardous polymerization will not occur.

SECTION 10 TOXICOLOGICAL INFORMATION

IMMEDIATE HEALTH EFFECTS

Eye Irritation: the eye irritation hazard is based on evaluation of data for similar materials or product components.

Skin Irritation: The skin irritation hazard is based on evaluation of data for similar materials or product components.

Skin Sensitization: No product toxicology data is available

Acute Dermal Toxicity: The acute dermal toxicity hazard is based on evaluation of data for similar materials or product components.

Acute Oral Toxicity: The acute oral toxicity hazard is based on evaluation of data for similar materials or product components.

Acute Inhalation Toxicity: The acute inhalation toxicity hazard is based on evaluation of data for similar materials or product components.

ADDITIONAL TOXICOLOGY INFORMATION:

This product contains petroleum base oils which may be refined by various processes including severe solvent extraction, severe hydrocracking, or severe hydro treating. None of the oils requires a cancer warning under the OSHA Hazard Communication Standard (29 CFR 1910.1200). These oils have not been listed in the National Toxicology Program (NTP) Annual Report nor have they been classified by the International Agency for Research on cancer (IARC) as; carcinogenic to humans (Group 1), probably carcinogenic to humans (Group 2A), or possibly carcinogenic to humans (Group B). These oils have not been classified by the American Conference of Governmental Industrial Hygienists (ACGIH) as: confirmed carcinogen (A1), suspected of human carcinogen (A2), or confirmed animal carcinogen with unknown relevance to humans (A3).

SECTION 11 ECOLOGICAL INFORMATION

ECOTOXICITY

96 hour(s) LC50: >1000 mg/l (Oncorhynchus mykiss)

48 hour(s) EC50: >1000 mg/l (Daphnia magna)

This material is not expected to be harmful to aquatic organisms

ENVIRONMENTAL FATE

This material is not expected to be readily biodegradable

SECTION 12 DISPOSAL CONSIDERATIONS



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Use material for its intended purpose or recycle if possible. Oil collection services are available for used oil recycling or disposal. Place contaminated materials in containers and dispose of in a manner consistent with applicable regulation. Contact your sales representative or local environmental or health authorities for approved disposal or recycling methods.

SECTION 13 TRANSPORT INFORMATION

The description shown may not apply to all shipping situations. Consult 49CFR, or appropriate Dangerous Goods Regulations, for additional description requirements (e.g. technical name) and mode-specific or quantity-specific shipping requirements.

DOT Shipping Description: PETROLEUM LUBRICATING OIL, NOT REGULATED AS A HAZARDOUS MATERIAL.

IMO/IMDG Shipping Description: PETROLEUM LUBRICATING OIL, NOT REGULATED AS A DANGEROUS GOOD.

ICAO/IATA Shipping Description: PETROLEUM LUBRICATING OIL, NOT REGULATED AS A DANGEROUS GOOD.

SECTION 14 REGULATORY INFORMATION

EPCRA 311/312 CATEGORIES:	1. Immediate (Acute) Health Effects:	NO	
	2. Delayed (Chronic) Health Effects:	NO	
	3. Fire Hazard		NO
	4. Sudden Release of Pressure Hazard:	NO	
	5. Reactivity Hazard:		NO

REGULATORY LISTS SEARCHED

01-1 = IARC Group 1	03 = EPCRA 313
01-02 = IARC Group 2A	04 = CA Proposition 65
01-02B = IARC Group 2B	05 = MA RTK
02 = NTP Carcinogen	06 = NJ RTK
	07 = PA RTK

No components of this material were found in the regulatory lists above

CHEMICAL INVENTORIES:

All components comply with the following chemical inventory requirements: EINECS (European Union), TSCA (United States).

One or more components does not comply with the following chemical inventory requirements: AICS (Australia), DSL (Canada), ENCS (Japan), KECI (Korea), PICCS (Philippines).

NEW JERSEY RTK CLASSIFICATION:

Under the New Jersey Right-to-Know Act L. 1983 Chapter 315 N.J.S.A. 34:5A-1 et. Seq., the product is to be identified as follows: PETROLEUM OIL (lubricating Oil)

WHMIS CLASSIFICATION:

This product is not considered a controlled product according to the criteria of the Canadian Controlled Products Regulations.

SECTION 15 OTHER INFORMATION

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



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HMIS RATINGS: Health: 0 Flammability: 1 Reactivity: 0
(0-Least, 10 Slight, 2- Moderate, 3- High, 4- Extreme, PPE- Personal Protection Equipment Index recommendation, *- Chronic Effect Indicator). These values are obtained using the guidelines or published evaluations prepared by the National Fire Protection Association (NFPA) or the National Paint and Coating Association (for HMIS ratings).

LABEL RECOMMENDATION:

Label Category: INDUSTRIAL OIL 1

ABBREVIATIONS THAT MAY HAVE BEEN USED IN THIS DOCUMENT:	
TLV – Threshold Limit Value	TWS – Time Weighted Average
STEL – Short-Term Exposure Limit	PEL – Permissible Exposure Limit
	CAS – Chemical Abstract Service number
ACGIH – American Conference of Government industrial Hygienists	IMO/IMDG – International Maritime Dangerous Goods Code
API – American Petroleum Institute	MSDS – Material Safety Data Sheet
DOT – Department of Transportation (USA)	NFPA – National Fire Protection Association (USA)
IARC – International Agency for Research on Cancer	NTP – National Toxicology Program (USA)
OSHA – Occupational Safety and Health Administration	

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.