

SAFETY DATA SHEET

according to Regulation (EC) No. 453/2010

Date Issued : 08/04/2015

SDS No : 1049265

Nordson EP2 Oil

SECTION 1 : Identification of the substance/preparation and of the company/undertaking

1.1. Product identifier

Product name : Nordson EP2 Oil

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.3. Details of the supplier of the safety data sheet

Manufacturer

enviro-blend, Inc.
P.O. Box 329
Springfield, TN 37172

Service Number : 615-382-8215

E-Mail : enviroblend@birch.net

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

2.2. Label elements

2.3. Other hazards

SECTION 3: Composition / information on ingredients

3.1. Substances

Not Applicable

3.2. Mixtures

Chemical Name	CAS	EINECS No.	Wt.%
Distillates (petroleum) Solvent Dewaxed Heavy Paraffins	64742-65-0	265-169-7	60 - 100
Distillates, Petroleum, Hydrotreated Light	64742-47-8	265-149-8	0.1 - 1
Zinc alkyl dithiophosphate	68649-42-3	Not Applicable	1 - 1.25

Additional information : The highly refined mineral oil contains <3% (w/w) DMSO-extract, according to IP346.

SECTION 4: First aid measures

4.1. Description of first aid measures

Following eyes : Immediately flush with plenty of water for at least 15 minutes; ensure water flushing of entire surface of eye and lid. Obtain medical attention if irritation persists.

Following skin : Wash with soap and water. Get medical attention if irritation develops or persists.

Following ingestion : In general no treatment is necessary unless large quantities are swallowed, however, it is best to get medical advice.

Following inhalation : No treatment is necessary under normal conditions of use. If symptoms persist, obtain medical advice.

4.2. Most important symptoms and effects, both acute and delayed

Eyes : May cause slight eye irritation.

SAFETY DATA SHEET

according to Regulation (EC) No. 453/2010

Date Issued : 08/04/2015

SDS No : 1049265

Nordson EP2 Oil

Skin	: Prolonged contact may produce oil acne/ dermatitis.
Ingestion	: Not expected in industrial use.
Inhalation	: May cause dizziness.

4.3. Indication of any immediate medical attention and special treatment needed

Notes to physician	: Treat symptomatically.
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SECTION 5: Fire fighting measures

5.1. Extinguishing media

Extinguishing media	: CO ₂ , Dry Chemical, Water Fog.
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5.2. Special hazards arising from the substance or mixture

Hazardous combustion products	: Hazardous decomposition products include carbon dioxide and carbon monoxide.
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Explosion hazards	: None Expected.
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Fire explosion	: None Expected.
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Sensitive to static discharge	: Not yet Determined
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Sensitivity to impact	: None
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5.3. Advice for firefighters

Fire fighting procedures	: Use water spray to cool fire-exposed containers.
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Fire fighting equipment	: Wear approved self-contained breathing apparatus.
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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General procedures	: Spilled product is extremely slippery. Do not walk through spilled material.
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Special protective equipment	: See section 8
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Release notes	: Keep out of open bodies of water.
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6.2. Environmental precautions

Water spill	: Keep spills and cleaning run-off out of municipal sewers and open bodies of water.
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6.3. Methods and material for containment and cleaning up

Small spill	: Avoid runoff into storm sewers and ditches which lead to waterways.
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Large spill	: Stop leak. Dike to contain spill, cover with inert absorbent material, sweep up and place in suitable container(s) for disposal.
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6.4. Reference to other sections

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Handling	: Follow all MSDS/label precautions even after container is emptied because it may retain product residues.
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Storage	: Keep container tightly closed in a dry and well-ventilated area.
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7.2. Conditions for safe storage, including any incompatibilities

Storage temperature	: Store at ambient temperatures.
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SAFETY DATA SHEET

according to Regulation (EC) No. 453/2010

Date Issued : 08/04/2015
SDS No : 1049265

Nordson EP2 Oil

Electrostatic accumulation hazard : This product has the potential to be a static accumulator. Proper grounding and bonding procedures should be used during all bulk transfer operations.

Shelf life : 48 months from date of purchase.

7.3. Specific end use(s)

SECTION 8: Exposure controls / personal protection

8.1. Control parameters

8.2. Exposure controls

Eye/face protection :
Wear safety glasses or splash goggles.

Skin protection : Wear impervious gloves.

Respiratory protection : None required for normal operation. Use an approved respirator when exposure to vapors of mists is anticipated.

Protective clothing : Impervious clothing. The type of protective clothing must be selected according to the concentration and amount of the product handled at the specific workplace.

Work hygienic practices : Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of the workday.

Other precautions : There should be an eye wash close by.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid

Appearance : dark green

Colour : dark green

Odour : slight hydrocarbon

Odour threshold : No data available.

pH : NA = Not Applicable

Melting temperature : NA = Not Applicable

Freezing temperature : No data available.

Boiling temperature : > 280°C (536°F)

Flash point : 250°C (482°F) Cleveland Open Cup

Evaporation rate : No data available.

Flammable limits : 1 to 10

Vapor pressure : 0.5 Pa @ 20⁰ C / 68⁰ F (estimated).

Vapor density : Typical = 0.895 at 15⁰ C / 59⁰ F

Density : 7.49 lb. / gal at 15°C (59°F) 895 kg/m³ at 15°C (59°F)

Specific gravity : 0.895

Solubility in water : Virtually insoluble

Partition coefficient: n-octanol/water : >6 (based on information on similar products)

Auto-ignition temperature : 320°C (608°F)

SAFETY DATA SHEET

according to Regulation (EC) No. 453/2010

Date Issued : 08/04/2015
SDS No : 1049265

Nordson EP2 Oil

Thermal decomposition : No data available.
Pour point : ~ - 15°C
Weight per volume : 7.49 lb/gal.
Oxidising properties : No data available.

9.2. Other information

(VOC) : Not a VOC

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity : None known.

10.2. Chemical stability

Chemical stability : Stable under normal use conditions,

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions : If stored and handled properly: none known.

10.4. Conditions to avoid

Conditions to avoid : Excessive heat, sparks and open flames.

10.5. Incompatible materials

Incompatible materials : Oxidizers.

10.6. Hazardous decomposition products

Hazardous decomposition products : None under normal use conditions, oxides of carbon when burned.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute

Dermal LD₅₀ : > 5000 mg/kg rabbit

Oral LD₅₀ : > 5000 mg/kg (rat)

Carcinogenicity

Chemical Name	NTP Status	IARC Status	OSHA Status	Other	General Toxicity
Distillates (petroleum) Solvent Dewaxed Heavy Paraffins	Not a carcinogen	Not a carcinogen	Not a carcinogen	Not a carcinogen	The highly refined mineral oil contains <3% (w/w) DMSO-extract, according to IP346 and is therefore not classifiable as a carcinogen by ACGIH Group A4, IARC 3 and GHS/CLP.

SAFETY DATA SHEET

according to Regulation (EC) No. 453/2010

Date Issued : 08/04/2015

SDS No : 1049265

Nordson EP2 Oil

Notes	: not expected to be carcinogenic. Product contains mineral oils of types shown to be non-carcinogenic in animal skin-painting.
Reproductive effect	: None Expected.
Other information	: Used oils may contain harmful impurities that have accumulated during use. The concentration of such impurities will depend on use and they may present risks to health and the environment on disposal. ALL used oil should be handled with caution and skin contact avoided as far as possible. Continuous contact with used engine oils has caused skin Cancer in animal tests.

SECTION 12: Ecological information

12.1. Toxicity

Toxicity : Ecotoxicological data have not been determined specifically for this product. Information given is based on a knowledge of the components and the ecotoxicology of similar products. Unless indicated otherwise, the data presented is representative of the product as a whole, rather than for individual components.

Aquatic toxicity (acute) :

Notes : Poorly soluble mixture. May cause physical fouling of aquatic organisms. Expected to be practically non toxic: LL/EL/IL/50>100 mg/L (to aquatic organisms) LL/EL/50 expressed as the nominal amount of product required to prepare aqueous test extract. Mineral oil is not expected to cause any chronic effects to aquatic organisms at concentrations less than 1mg/L

12.2. Persistence and degradability

Persistence and degradability : Expected to be not readily biodegradable. Major constituents are expected to be inherently biodegradable, but the product contains components that may persist in the environment.

12.3. Bioaccumulative potential

Bioaccumulative potential : Contains components with the potential to bioaccumulate.

12.4. Mobility in soil

Mobility in soil : Liquid under most environmental conditions. If it enters soil, it will adsorb to soil particles and will not be mobile. Floats on water.

12.5. Results of PBT and vPvB assessment

12.6. Other adverse effects

General comments : Product is a mixture of non-volatile components, which are not expected to be released to air in any significant quantities. Not expected to have ozone depletion potential, photochemical ozone creation potential or global warming potential.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product disposal : Material that cannot be used or chemically reprocessed should be disposed of at an approved facility in accordance with any applicable governmental regulations.

Disposal method : Recover or recycle is possible. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to

SAFETY DATA SHEET

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SDS No : 1049265

Nordson EP2 Oil

determine the proper waste classification and disposal methods in compliance with applicable regulations. Do not dispose into the environment, in drains or in water courses.

Empty container : offer to licensed container recycler.

SECTION 14: Transport information

14.1. UN number

14.2. UN proper shipping name

14.3. Transport hazard class(es)

14.4. Packing group

14.5. Environmental hazards

14.6. Special precautions for user

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.2. Chemical safety assessment

SECTION 16: Other information

Reason for issue : GHS Format

Data sources : The SDS is compiled using supplied product information and SDS information from the manufacturers of the raw materials used in the formulation of this product.

Additional SDS information : The standard abbreviations and acronyms used in this document can be looked up in reference literature (e.g. scientific dictionaries) and / or websites. Not all acronyms and abbreviations listed below have been incorporated in the Safety Data Sheet

Legend:

ACGIH: American Conference of Governmental Industrial Hygienists

AICS: Australian Inventory of Chemical Substances

ADN: European Agreement concerning the international carriage of dangerous goods by inland waterways (ADN)

ADNR: ADN Specific for the Rhine

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

ASTM: American Society for Testing and Materials

BEL: Biological Exposure Limits

BTEX: Benzene, Toluene, Ethylbenzene, Xylenes

CAS: Chemical Abstracts Services

CEFIC: European Chemical Industry Council

CLP: Classification Packaging and Labelling.

COC: Cleveland Open-Cup

DIN: Deutsched Institute fur Normung

DMEL: Derived Minimal effect Level

DNEL: Derived No Effect Level

DSL: Canada Domestic Substance List

SAFETY DATA SHEET

according to Regulation (EC) No. 453/2010

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SDS No : 1049265

Nordson EP2 Oil

EC: European Commission
 EC50): Effective Concentration Fifty
 ECETOC: European Center on Ecotoxicology and Toxicology of Chemicals
 ECHA: European Chemicals Agency
 EINECS: The European Inventory of Existing Commercial Chemical Substances
 EL50): Effective Loading Fifty
 ENCS: Japanese Existing and New Chemical Substances Inventory
 EWC: European Waste Code
 GHS: Globally Harmonised system of Classification and Labelling of Chemicals
 DMSO: Dimethyl Sulfoxide
 EU: European Union
 IARC: International Agency for Research on Cancer
 IATA: International Air Transport Association.
 IC50: Inhibitory Concentration 50
 IL50: Inhibitory Level Fifty
 IMDG: International Maritime Dangerous Goods
 INV: Chinese Chemicals Inventory
 IP346: Institute of Petroleum Test Method N0 346 for the determination of polycyclic aromatics DMSO-extractables
 KECI: Korea Existing Chemicals Inventory
 LC50: Lethal Concentration Fifty
 LD50: Lethal Dose Fifty
 LL/EL/IL: Lethal Loading/Effective Loading/ Inhibitory Loading
 LL50: Lethal Loading 50
 MARPOL: International Convention for the Prevention of Pollution from Ships
 NOEC?NOEL: No observed Effect Concentration / No observed Effect Level
 OE_HP: Occupational Exposure - High Production Volume
 PBT: Persistent, Bioaccumulative and Toxic
 PICCS: Philippine Inventory of Chemicals and Chemical Substances
 PNEC: Predicted No Effect Concentration
 REACH: Registration Evaluation and Authorization of Chemicals
 RID: Regulations Relating to International Carriage of Dangerous Goods by Rail
 SKIN_DES: Skin Designation
 STEL: Short Term Exposure Limit
 TRA: Targeted Risk Assessment
 TSCA: US Toxic Substances Control Act
 TWA: Time-Weighted Average
 vPvB: Very Persistent and Very Bioaccumulative
 NTP: United Nations Toxicology Program.
 OSHA: Occupational Safety and Health Act.
 HMIS: Hazardous Materials Identification System.
 NFPA: National Fire Protection Association.

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