

# SAFETY DATA SHEET

according to Regulation (EC) No. 453/2010

Date Issued : 02/13/2015  
 SDS No : 900255 / 900256  
 Date Revised : 06/16/2016  
 Revision No : 4

## Nordson Type K Fluid

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

#### 1.1. Product identifier

Product code : 900255 / 900256  
 Product name : Nordson Type K Fluid

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

Relevant identified uses : Lubricant

#### 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

#### 1.4. Emergency telephone number

ChemTel (US, Canada Transportation) - 1-800-255-3924 (Contract # MIS1186925)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]  
 : Not classified as dangerous under EC criteria.

#### 2.2. Label elements

Not classified as dangerous according to regulatory guidelines.

#### Classification according to Regulation (EC) No 1272/2008 [CLP]

#### Precautionary statement(s)

Disposal : P273: Avoid release to the environment.  
 P391: Collect spillage.  
 P501: Dispose of contents/container to qualified waste disposal facility.

#### 2.3. Other hazards

Immediate concerns : No data available.  
 Health hazards : No data available.  
 Physical hazards : No data available.

### SECTION 3: Composition / information on ingredients

#### 3.1. Substances

Chemical Name	CAS	EINECS No.	Wt.%
Epoxidized Soybean Oil	8013-07-8	232-391-0	100

#### 3.2. Mixtures

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Not Applicable

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

- General notes** : Show this Safety Data Sheet to the medical professional in attendance..
- Following eyes** : Immediately flush eyes with plenty of water. Get medical attention, if irritation persists.
- Following skin** : Wash with soap and water. Get medical attention if irritation develops or persists.
- Following ingestion** : Rinse mouth with water, consult a physician. Never give anything by mouth to an unconscious person.
- Following inhalation** : Move person to fresh air. If not breathing, give artificial respiration and consult a physician.

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

- Eyes** : May cause slight eye irritation.
- Skin** : Repeated or prolonged skin contact may cause skin irritation.
- Skin absorption** : None Expected.
- Ingestion** : May cause nausea.
- Inhalation** : May cause dizziness.

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

### SECTION 5: Fire fighting measures

#### 5.1. Extinguishing media

- Extinguishing media** : Use alcohol foam, carbon dioxide, or water spray when fighting fires involving this material.

#### 5.2. Special hazards arising from the substance or mixture

- Hazardous combustion products** : None known.
- Explosion hazards** : None known.
- Fire explosion** : None Expected.
- Sensitive to static discharge** : None
- Sensitivity to impact** : None

#### 5.3. Advice for firefighters

- Fire fighting procedures** : Use water spray to cool fire-exposed containers.
- Fire fighting equipment** : Wear approved self-contained breathing apparatus.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

- General procedures** : Wear suitable gloves and safety or splash goggles. Remove contaminated clothing and wash before reuse, wash any affected skin areas with soap and water.

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**Special protective equipment** : See section 8.2

### 6.2. Environmental precautions

**Water spill** : Keep spills and cleaning run-off out of municipal sewers and open bodies of water.

### 6.3. Methods and material for containment and cleaning up

**Small spill** : Dike to contain spill. Sweep up with inert material and place in suitable container for disposal.

**Large spill** : Stop leak. Dike to contain spill, cover with inert absorbent material, sweep up and place in suitable container(s) for disposal.

### 6.4. Reference to other sections

**Reference to other sections** : For disposal, see Section 13.

## 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.

**Storage** : Keep container tightly closed in a dry and well-ventilated area.

### 7.2. Conditions for safe storage, including any incompatibilities

**Storage temperature** : If possible, store in a "warm" room. Product is viscous at less than normal ambient temperatures.

**Electrostatic accumulation hazard** : None known.

**Shelf life** : 24 months from date of manufacture.

**Special sensitivity** : None known.

### 7.3. Specific end use(s)

## SECTION 8: Exposure controls / personal protection

### 8.1. Control parameters

**Control parameters** : Contains no substances with occupational exposure limit values.

### 8.2. Exposure controls

**Engineering controls** : Local exhaust is recommended when handling generated mists and vapors.

**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.

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### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state	: Viscous liquid.
Appearance	: Clear to slightly hazy.
Colour	: Light yellow.
Odour	: Bland.
Odour threshold	: No data available.
pH	: NA = Not Applicable
Melting temperature	: No data available.
Freezing temperature	: No data available.
Boiling temperature	: 399°C
Flash point	: 310°C
Evaporation rate	: No data available.
Flammable limits	: 0 to 0
Vapor pressure	: 0.01 mm @ 20°C.
Vapor density	: 25 (air = 1)
Specific gravity	: 0.993
Solubility in water	: Slight.
Auto-ignition temperature	: No data available.
Thermal decomposition	: No data available.
Viscosity	: No data available.
Weight per volume	: 8.18 lb/gal.
Explosive properties	: No data available.
Oxidising properties	: No data available.

#### 9.2. Other information

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Reactivity : No data available.

#### 10.2. Chemical stability

Chemical stability : Stable under normal use conditions,

#### 10.3. Possibility of hazardous reactions

Possibility of hazardous reactions : None known.

Hazardous polymerization : Will not occur under normal use conditions.

#### 10.4. Conditions to avoid

Conditions to avoid : Excess heat.

#### 10.5. Incompatible materials

Incompatible materials : Strong oxidizing agents, strong acids or bases.

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### 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 LD<sub>50</sub>** : > 20 g/kg (rabbit)

**Oral LD<sub>50</sub>** : 22.5 g/kg (rat)

**Inhalation LC<sub>50</sub>** : Inhalation of concentrated vapors for 8 hours produced no deaths. (rats)

**Notes** : Product has very low oral, dermal, and inhalation toxicity. Epoxidized soybean oil is mildly irritating to the eyes and skin and is non-sensitizing to the skin.

**Skin corrosion/irritation** : Mildly irritating to eyes and skin (rabbit)

**Serious eye damage/irritation** : Mildly irritating to eyes and skin (rabbit)

**Respiratory or skin sensitisation** : Not a sensitizer (guinea pig)

**Germ cell mutagenicity** : Mouse lymphocyte - negative.

**Carcinogenicity** : None

**Reproductive toxicity** : NA = Not Applicable

**STOT-repeated exposure** : No data available.

## SECTION 12: Ecological information

### 12.1. Toxicity

**Toxicity** : None Expected.

**Aquatic toxicity (acute)** : Toxicity to fish: :LC50 - Leuciscus idus (Golden orfe) - 900 mg/l - 48 h.

Toxicity to aquatic invertebrates :EC50 - Daphnia magna (water flea) - > 100 mg/l - 24 h.

Toxicity to algae :EC50 - Desmodesmus subspicatus (green algae) - 8mg/l - 72 h.

### 12.2. Persistence and degradability

**Persistence and degradability** : Readily biodegradable. Biodegradability aerobic - Exposure time 28 days. Result 92%

### 12.3. Bioaccumulative potential

**Bioaccumulative potential** : No data available.

### 12.4. Mobility in soil

**Mobility in soil** : No data available.

### 12.5. Results of PBT and vPvB assessment

**Results of PBT and vPvB assessment** : PBT/vPvB assessment not available as chemical safety assessment not required / not conducted.

### 12.6. Other adverse effects

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Environmental data : None Expected.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Product disposal : Offer surplus and non-recyclable solutions to a licensed disposal company.

Empty container :  
offer to licensed container recycler.

General comments : Material should be disposed of in accordance to current local and national regulations. It is the responsibility of the user to determine at time of disposal whether a product or solution meets regulatory criteria for hazardous waste, as mixing, use, contamination or soils may render the resultant mixture hazardous.

### SECTION 14: Transport information

#### 14.1. UN number

#### 14.2. UN proper shipping name

UN proper shipping name : Non-controlled

#### 14.3. Transport hazard class(es)

#### 14.4. Packing group

#### 14.5. Environmental hazards

#### 14.6. Special precautions for user

ADR - road : None

RID - rail : None

IMDG - sea : None

IATA - air : None

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

Additional information : None known.

### 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

Approved by : Brad Van Vleet

Prepared by : JBV

Information contact : 615-382-8215 / enviroblend@birch.net

Revision summary : This SDS replaces the 01/05/2016 SDS. Revised: **Section 12:** ECOTOXICOLOGICAL INFORMATION, ENVIRONMENTAL DATA. **Section 14:** AIR (ICAO/IATA) - PRIMARY HAZARD CLASS/DIVISION COMMENTS, DOT (DEPARTMENT OF TRANSPORTATION) - PROPER SHIPPING NAME ROAD AND RAIL (ADR/RID) ( UN NUMBER, PACKING GROUP ), VESSEL

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(IMO/IMDG) ( MARINE POLLUTANT #1, PRIMARY HAZARD CLASS/DIVISION, PACKING GROUP, UN/NA NUMBER ).

### 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 Hygenists

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

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

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MARPOL: International Convention for the Prevention of Pollution from Ships

NIOSH: National Institute of Occupational Safety and Health

NOEC/NOEL: No observed Effect Concentration / No observed Effect Level

NOHSC: National Occupational Health and Safety Commission

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

TREGS: Technical Rules for Hazardous Substances

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.

### Manufacturer disclaimer

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