

# SAFETY DATA SHEET

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

## Nordson Type K Fluid

### 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Nordson Type K Fluid  
**GENERAL USE:** Lubricant  
**PRODUCT CODE:** 900255 / 900256

#### MANUFACTURER

enviro-blend, Inc.  
 P.O. Box 329  
 Springfield, TN 37172  
**Customer Service:** 615-382-8215  
**E-Mail:** enviroblend@birch.net

#### 24 HR. EMERGENCY TELEPHONE NUMBERS

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

### 2. HAZARDS IDENTIFICATION

#### GHS LABEL

Not classified as dangerous according to regulatory guidelines.

#### PRECAUTIONARY STATEMENTS

##### Disposal:

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

#### EMERGENCY OVERVIEW

**PHYSICAL APPEARANCE:** Viscous yellow liquid

**IMMEDIATE CONCERNS:** No data available.

**HEALTH HAZARDS:** No data available.

**PHYSICAL HAZARDS:** No data available.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt. %	CAS
Epoxidized Soybean Oil	100	8013-07-8

### 4. FIRST AID MEASURES

**EYES:** Immediately flush eyes with plenty of water. Get medical attention, if irritation persists.

**SKIN:** Wash with soap and water. Get medical attention if irritation develops or persists.

**INGESTION:** Rinse mouth with water, consult a physician. Never give anything by mouth to an unconscious person.

**INHALATION:** Move person to fresh air. If not breathing, give artificial respiration and consult a physician.

#### SIGNS AND SYMPTOMS OF OVEREXPOSURE

**EYES:** May cause slight eye irritation.

**SKIN:** Repeated or prolonged skin contact may cause skin irritation.

**SKIN ABSORPTION:** None Expected.

**INGESTION:** May cause nausea.

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**INHALATION:** May cause dizziness.

**ADDITIONAL INFORMATION:** Show this Safety Data Sheet to the medical professional in attendance..

### 5. FIRE FIGHTING MEASURES

**EXTINGUISHING MEDIA:** Use alcohol foam, carbon dioxide, or water spray when fighting fires involving this material.

**HAZARDOUS COMBUSTION PRODUCTS:** None known.

**EXPLOSION HAZARDS:** None known.

**FIRE FIGHTING PROCEDURES:** Use water spray to cool fire-exposed containers.

**FIRE FIGHTING EQUIPMENT:** Wear approved self-contained breathing apparatus.

**FIRE EXPLOSION:** None Expected.

**SENSITIVE TO STATIC DISCHARGE:** None

**SENSITIVITY TO IMPACT:** None

### 6. ACCIDENTAL RELEASE MEASURES

**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.

#### ENVIRONMENTAL PRECAUTIONS

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

**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.

**SPECIAL PROTECTIVE EQUIPMENT:** See section 8.2

### 7. HANDLING AND STORAGE

**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.

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

**SHELF LIFE:** 24 months from date of manufacture.

**SPECIAL SENSITIVITY:** None known.

**ELECTROSTATIC ACCUMULATION HAZARD:** None known.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**ENGINEERING CONTROLS:** Local exhaust is recommended when handling generated mists and vapors.

#### PERSONAL PROTECTIVE EQUIPMENT

##### EYES AND FACE:

Wear safety glasses or splash goggles.

**SKIN:** Wear impervious gloves.

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

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**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.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**PHYSICAL STATE:** Viscous liquid.

**ODOR:** Bland.

**ODOR THRESHOLD:** No data available.

**APPEARANCE:** Clear to slightly hazy.

**COLOR:** Light yellow.

**pH:** NA = Not Applicable

**FLASH POINT AND METHOD:** 310°C

**FLAMMABLE LIMITS:** 0 to 0

**AUTOIGNITION TEMPERATURE:** No data available.

**VAPOR PRESSURE:** 0.01 mm @ 20°C.

**VAPOR DENSITY:** 25 (air = 1)

**BOILING POINT:** 399°C

**FREEZING POINT:** No data available.

**MELTING POINT:** No data available.

**THERMAL DECOMPOSITION:** No data available.

**SOLUBILITY IN WATER:** Slight.

**EVAPORATION RATE:** No data available.

**SPECIFIC GRAVITY:** 0.993

**VISCOSITY:** No data available.

**OXIDIZING PROPERTIES:** No data available.

**WEIGHT PER VOLUME:** 8.18 lb/gal.

### 10. STABILITY AND REACTIVITY

**REACTIVITY:** No data available.

**HAZARDOUS POLYMERIZATION:** Will not occur under normal use conditions.

**STABILITY:** Stable under normal use conditions,

**CONDITIONS TO AVOID:** Excess heat.

**POSSIBILITY OF HAZARDOUS REACTIONS:** None known.

**HAZARDOUS DECOMPOSITION PRODUCTS:** None under normal use conditions, oxides of carbon when burned.

**INCOMPATIBLE MATERIALS:** Strong oxidizing agents, strong acids or bases.

### 11. TOXICOLOGICAL INFORMATION

#### ACUTE TOXICITY

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

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**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

**NOTES:** None

**REPRODUCTIVE TOXICITY:** NA = Not Applicable

**STOT-REPEATED EXPOSURE:** No data available.

## 12. ECOLOGICAL INFORMATION

**ENVIRONMENTAL DATA:** None Expected.

**ECOTOXICOLOGICAL INFORMATION:** None Expected.

**BIOACCUMULATION/ACCUMULATION:** No data available.

**DISTRIBUTION:** No data available.

**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.

**CHEMICAL FATE INFORMATION:** Readily biodegradable. Biodegradability aerobic - Exposure time 28 days. Result 92%

## 13. DISPOSAL CONSIDERATIONS

**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.

## 14. TRANSPORT INFORMATION

**DOT (DEPARTMENT OF TRANSPORTATION)**

**PROPER SHIPPING NAME:** Non-controlled

**ROAD AND RAIL (ADR/RID)**

**PROPER SHIPPING NAME:** Non-controlled

**VESSEL (IMO/IMDG)**

**SHIPPING NAME:** Non-controlled

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**MARINE POLLUTANT #1:** None

**COMMENTS:** None known.

### 15. REGULATORY INFORMATION

#### UNITED STATES

##### SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

**311/312 HAZARD CATEGORIES:** No SARA 311 / 312 Hazards.

**313 REPORTABLE INGREDIENTS:** None

**TITLE III NOTES:** This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313

##### TSCA (TOXIC SUBSTANCE CONTROL ACT)

Chemical Name	CAS
Epoxidized Soybean Oil	8013-07-8

**CALIFORNIA PROPOSITION 65:** This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

### 16. OTHER INFORMATION

**REASON FOR ISSUE:** GHS Format

**APPROVED BY:** Brad Van Vleet

**PREPARED BY:** JBV    **Date Revised:** 06/16/2016

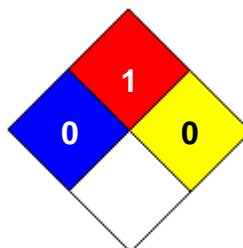
**INFORMATION CONTACT:** 615-382-8215 / enviroblend@birch.net

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

#### HMIS RATING

HEALTH	□	0
FLAMMABILITY	□	1
PHYSICAL HAZARD	□	0
PERSONAL PROTECTION	□	B

#### NFPA CODES



**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

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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  
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:V: 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: Thort Term Ex[posure Limit  
TRA: Targeted Risk Assessment  
TREGS: Technical Rules for Hazardous Substances  
TSCA: US Toxic Substances Control Act

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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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