

Nordson Type S Fluid

SAFETY DATA SHEET

SECTION 1: Identification

1.1 Product identifier

Product name	Nordson Type S Fluid
Product number	248831
Brand	Nordson

1.4 Supplier's details

Name	enviro-blend, Inc.
Address	P.O. Box 329 Springfield, TN 37172 USA
Telephone	615-382-8215
email	enviroblend@birch.net

1.5 Emergency phone number(s)

1-800-255-3924 ChemTel (US, Canada Transportation
Contract # MIS1 186925

SECTION 2: Hazard identification

2.1 Classification of the substance or mixture

GHS classification in accordance with: (CA) WHMIS 2015

- Acute hazards to the aquatic environment, Cat. 3

2.2 GHS label elements, including precautionary statements

Hazard statement(s)

H402 Harmful to aquatic life

Precautionary statement(s)

P273 Avoid release to the environment.
P501 Dispose of contents/container to an approved waste disposal facility.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

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1. Pentanedioic acid, 1,5-dimethyl ester

Concentration 40 - 70 % (weight)
EC no. 214-277-2
CAS no. 1119-40-0

2. Hexanedioic acid, 1,6-dimethyl ester

Concentration 10 - 30 % (weight)
EC no. 211-020-6
CAS no. 627-93-0

- Hazardous to the aquatic environment, short-term (acute), Cat. 3

H402 Harmful to aquatic life

3. Dimethyl succinate

Concentration 10 - 30 % (weight)
CAS no. 106-65-0

- Flammable liquids, Cat. 4

H227 Combustible liquid

SECTION 4: First-aid measures

4.1 Description of necessary first-aid measures

General advice Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled Move to fresh air, provide oxygen if breathing is difficult. Obtain medical attention.

In case of skin contact Wash off with soap and plenty of water. Get medical attention if symptoms occur.

In case of eye contact Rinse thoroughly with plenty of water for at least 15 minutes. Get medical attention if symptoms occur.

If swallowed DO NOT induce vomiting. If vomiting does occur, have victim lean forward to prevent aspiration. Rinse mouth with water. Seek medical attention. Never give anything by mouth to an unconscious individual.

Personal protective equipment for first-aid responders
No data available.

4.2 Most important symptoms/effects, acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

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4.3 Indication of immediate medical attention and special treatment needed, if necessary

No data available.

SECTION 5: Fire-fighting measures

5.1 Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Specific hazards arising from the chemical

Hazardous decomposition products include carbon dioxide and carbon monoxide.

5.3 Special protective actions for fire-fighters

Wear self-contained breathing apparatus with full face piece, operated in pressure demand or other positive pressure mode, and full protective clothing.

Further information

No data available.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency 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.

6.2 Environmental precautions

Keep spills and cleaning run-off out of municipal sewers and open bodies of water. See Section 12 for additional ecological information.

6.3 Methods and materials for containment and cleaning up

SMALL SPILLS: Contain and absorb with absorbent material and place into containers for later disposal. Wash site of spillage thoroughly with water. LARGE SPILLS: Dike far ahead of spill to prevent further movement. Recover by pumping or by using a suitable absorbent material and place into containers for later disposal. Dispose in suitable waste container.

Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Ensure adequate ventilation. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes and clothing. Avoid ingestion and inhalation. For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Specific end use(s)

No data available.

SECTION 8: Exposure controls/personal protection

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8.2 Appropriate engineering controls

Industrial Setting: Provide local exhaust or general dilution ventilation to keep exposure to airborne contaminants below the permissible exposure limits where mists or vapors may be generated.

8.3 Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection

Industrial setting: For splash protection, use chemical goggles. Eye wash fountain is recommended.

Skin protection

Industrial Setting: Protective gloves (for hands) and protective clothing are required where repeated or prolonged skin contact may occur.

Body protection

Skin Protection: Protective gloves (for hands) and protective clothing are required where repeated or prolonged skin contact may occur.

Respiratory protection

No special precautions for casual exposure. Ventilation Local Exhaust: Industrial (General): Normal/general dilution ventilation is acceptable. Air contamination monitoring should be carried out where mists or vapors are likely to be generated, to assure that the employees are not exposed to airborne contaminants above the permissible exposure limits.

Thermal hazards

No data available

Environmental exposure controls

Do not let product enter drains.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance/form (physical state, color, etc.)	colorless liquid
Odor	Mild, not unpleasant
Odor threshold	No data available
pH	not established
Melting point/freezing point	No data available
Initial boiling point and boiling range	196 C (385 F) to 225 C (437 F)
Flash point	100 C (212 F) Closed Cup
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper/lower flammability limits	8.0% (V) to 0.9% (V)
Vapor pressure	0.2 mmHg at 20 C (68 F)
Vapor density	No data available
Relative density	1.092
Solubility(ies)	Insoluble in water
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature	370 C (698 F)
Decomposition temperature	No data available
Viscosity	No data available

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Explosive properties
Oxidizing properties

No data available
No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under normal use and storage conditions.

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

None under normal use conditions.

10.5 Incompatible materials

Pentanedioic acid, 1,5-dimethyl ester: Acids, bases, oxidizing agents, reducing agents

10.6 Hazardous decomposition products

Pentanedioic acid, 1,5-dimethyl ester: Other decomposition products - No data available In the event of fire: see section 5

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

Pentanedioic acid, 1,5-dimethyl ester: Pentanedioic acid, 1,5-dimethyl ester

Inhalation

Result: No data available

Pentanedioic acid, 1,5-dimethyl ester

Skin

Result: No data available

DIMETHYL SUCCINATE: DIMETHYL SUCCINATE

LD50 Oral - Rat - 6,892 mg/l

DIMETHYL SUCCINATE

LD50 Inhalation - Rat - > 2,000 mg/l

DIMETHYL SUCCINATE

LD50 Skin - Rabbit - > 5,000 mg/l

Skin corrosion/irritation

Pentanedioic acid, 1,5-dimethyl ester: Pentanedioic acid, 1,5-dimethyl ester

- Rabbit

Result: No skin irritation

DIMETHYL SUCCINATE: DIMETHYL SUCCINATE

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- Rabbit

Result: no skin irritation

Serious eye damage/irritation

Pentanedioic acid, 1,5-dimethyl ester: Pentanedioic acid, 1,5-dimethyl ester

- Rabbit

Result: No eye irritation

DIMETHYL SUCCINATE: DIMETHYL SUCCINATE

- Rabbit

Result: mild eye irritation

Respiratory or skin sensitization

Pentanedioic acid, 1,5-dimethyl ester: Pentanedioic acid, 1,5-dimethyl ester

Result: No data available

DIMETHYL SUCCINATE: DIMETHYL SUCCINATE

- Mouse

Result: did not cause sensitisation

Germ cell mutagenicity

Pentanedioic acid, 1,5-dimethyl ester: Pentanedioic acid, 1,5-dimethyl ester

- Rat

Result: Negative

DIMETHYL SUCCINATE: DIMETHYL SUCCINATE

- Mouse

Result: Negative

Carcinogenicity

Pentanedioic acid, 1,5-dimethyl ester: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by IARC, ACHIH, OSHA, NTP.

Reproductive toxicity

Pentanedioic acid, 1,5-dimethyl ester: Pentanedioic acid, 1,5-dimethyl ester

Result: Negative

DIMETHYL SUCCINATE: No data available

STOT-single exposure

Pentanedioic acid, 1,5-dimethyl ester: Pentanedioic acid, 1,5-dimethyl ester

Result: No data available

STOT-repeated exposure

Pentanedioic acid, 1,5-dimethyl ester: Pentanedioic acid, 1,5-dimethyl ester

Result: No data available

Aspiration hazard

Pentanedioic acid, 1,5-dimethyl ester: Pentanedioic acid, 1,5-dimethyl ester

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Result: No data available

Additional information

No data available.

SECTION 12: Ecological information

Toxicity

Pentanedioic acid, 1,5-dimethyl ester: Pentanedioic acid, 1,5-dimethyl ester
LC50 - Lepomis macrochirus (bluegill) - 30.838mg/l - 96 hours

DIMETHYL SUCCINATE: DIMETHYL SUCCINATE
LC50 - Danio rerio (zebra fish) - 50 - 100 mg/l - 96 hours

DIMETHYL SUCCINATE
EC50 - Daphnia magna (water flea) - > 100 mg/l - 48 hours

DIMETHYL SUCCINATE
EC50 - Pseudokirchneriella subcapitata (green algae) - 100 mg/l - 72 hours

DIMETHYL SUCCINATE
EC50 - > 1,000 mg/l - 3 hours
Result: Growth inhibition - sludge treatment

Persistence and degradability

Pentanedioic acid, 1,5-dimethyl ester: Pentanedioic acid, 1,5-dimethyl ester

Result: Readily biodegradable

DIMETHYL SUCCINATE: DIMETHYL SUCCINATE

Result: readily biodegradable

Bioaccumulative potential

Pentanedioic acid, 1,5-dimethyl ester: No data available

Mobility in soil

Pentanedioic acid, 1,5-dimethyl ester: No data available

Results of PBT and vPvB assessment

Pentanedioic acid, 1,5-dimethyl ester: PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects

Pentanedioic acid, 1,5-dimethyl ester: No data available

SECTION 13: Disposal considerations

Disposal of the product

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

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Disposal of contaminated packaging

Packing that cannot be properly cleaned should be sent to an licensed recycle/disposal facility.

Waste treatment

Disposal of spent working solutions governed by local/regional or state regulations.

Sewage disposal

Dispose of spent solutions in accordance with current local/regional/state/national/or international regulations

Other disposal recommendations

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

DOT (US)

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations specific for the product in question

New Jersey Right to know

Dimethyl Glutarate - 1119-40-0

Pennsylvania Right to Know

Dimethyl glutarate - 1119-40-0

California Prop 65 components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

SARA 311/312

No SARA hazards.

SARA 313

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.

SARA 302

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

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California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

New Jersey Right to know

Dimethyl adipate 623-93-0

Pennsylvania Right to know

Dimethyl adipate - 627-93-0

SARA 311/312 Hazards

Chronic Health Hazard

Sara 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

New Jersey Right to Know

Dimethyl Succinate - 106-65-0

Pennsylvania Right to Know

Dimethyl Succinate - 106-65-0

SARA 311/312 Hazards

Fire hazard

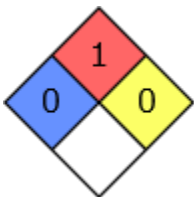
SARA 313 Compounds

The following components are subject to reporting levels established by SARA Title III, Section 313:

HMIS Rating

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HEALTH	0
FLAMMABILITY	1
PHYSICAL HAZARD	0
PERSONAL PROTECTION	B

NFPA Rating



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SECTION 16: Other information

16.1 Further information/disclaimer

As the conditions or methods of use are beyond our control, enviro-blend, Inc. does not assume any responsibility and expressly disclaims any liability for any use of this material. Information contained herein has been obtained from the manufacturer and / or recognized technical sources. The information is believed to be true and accurate, but all statements or suggestions are made without warranty, express or implied, regarding accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof. Compliance with all applicable federal, state and local laws and regulations remains the responsibility of the user.

16.2 Preparation information

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.