

SAFETY DATA SHEET

Product Name: Smartfoil

Product Number(s): Not Applicable

SECTION 1: IDENTIFICATION

This Safety Data Sheet (SDS) complies with the requirements of the U.S. Federal Occupational Safety and Health Administration Hazard Communications 29 CFR 1910. 1200 (g)(2) as revised March 6, 2012

Product Identifiers

Product name : Smartfoil
Product Code(s) : Not Applicable
CAS Number : Not Applicable

Application of the Substance or Mixture

Product Use : Fertilizer
Product Restrictions : No further relevant information available

Details of the Supplier of the Safety Data Sheet

Company Identification : Agrauxine by Lesaffre, for
Lesaffre Yeast Corporation
7475 West Main Street
Milwaukee, WI 53214
1-877-677-7000

Emergency Telephone Number : CHEMTREC 1-800-424-9300
Transport Emergency

SECTION 2: HAZARD(S) IDENTIFICATION

Classification of the Substance or Mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Not a hazardous substance or mixture.

GHS Label Elements

Not a hazardous substance or mixture.

Hazard(s) Not Otherwise Classified
(HNOC) or not covered by GHS : Not Applicable

SECTION 3: COMPOSITION/ INFORMATION ON INGREDIENTS

Chemical Classification : Mixture
Common Name/ Synonyms : Vinasse
CAS Number : Not Applicable

Hazardous Components

No ingredients are hazardous according to OSHA criteria or Canada's Workplace Hazardous Materials Information System (WHMIS).

No components need to be disclosed according to the applicable regulations.

SAFETY DATA SHEET

Product Name: Smartfoil

Product Number(s): Not Applicable

SECTION 4: FIRST-AID MEASURES

Description of First Aid Measures

Eye Contact	: Remove contact lenses at once. Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical help if needed.
Skin Contact	: Flush skin with plenty of water.
Ingestion	: If victim is conscious and alert, rinse mouth with water as a precaution. Never give anything to an unconscious person.
Inhalation	: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen and get medical help immediately.

Most Important Symptoms and Effects, both Acute and Delayed

No further relevant information available.

Indication of Any Immediate Medical Attention and Special Treatment Needed

No further relevant information available.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Agents : Use dry chemical, carbon dioxide, water spray, or alcohol-resistant foam. Use agent most appropriate to extinguish fire.

Special Hazards Arising From the Substance or Mixture

Carbon oxides and sulfur oxides may arise when product is in contact with fire.

Advice for Firefighters

Protective Equipment : Wear self-contained breathing apparatus for firefighting if necessary.
Additional Information : No data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Use proper personal protective equipment as indicated in Section 8.

Environmental Precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. In case of large spill, dike to contain the drainage.

Methods and Materials for Containment and Clean Up

Pick up with suitable material and put in an appropriate container for disposal.
Aerate the spill area and wash with a large amount of water.

SAFETY DATA SHEET

Product Name: Smartfoil

Product Number(s): Not Applicable

In case of large spillage: absorb with inert material (e.g. dry sand or earth) and place in a suitable waste container. Clean up affected area with a large amount of water.

Reference to Other Sections

See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling

Handle in accordance with good industrial hygiene and safety practices. These practices include avoiding unnecessary exposure and removal of the material from eyes, skin and clothing. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventative fire protection. For precautions, see section 2.

Conditions for Safe Storage, Including Any Incompatibilities

Store unopened in a dry and well-ventilated area. Prevent exposure to direct sunlight, frost, and moisture.

Specific End Use(s)

Apart from the use(s) mentioned in Section 1, no other specific uses are stipulated.

SECTION 8: EXPOSURE CONTROL/ PERSONAL PROTECTION

Control Parameters

Appropriate Engineering Controls : General industrial hygiene practice.

Personal Protective Equipment

Eyes : Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin : Wear appropriate protective gloves to prevent skin exposure. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Clothing : Wear appropriate protective clothing to prevent skin exposure.

Respirators : Respiratory protection is not required. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if irritation or other symptoms are experienced.

Product Name: Smartfoil**Product Number(s): Not Applicable****SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES****Information on Basic Physical and Chemical Properties**

Appearance:

Form	: Liquid
Color	: Dark Brown
Odor	: Characteristic
Odor Threshold	: No Data Available
pH	: 6
Freezing/ Melting point	: -25.4°C
Initial Boiling Point and Boiling Range	: No Data Available
Flash Point	: No flashpoint up to 130°C.
Evaporation Rate	: No Data Available
Flammability (solid, gas)	: 424°C.
Upper/Lower Flammability or Explosive Limits	: No Data Available
Vapor Pressure	: No Data Available
Vapor Density	: No Data Available
Relative Density	: 1.3 at 20°C.
Water Solubility	: Soluble (> 1000g/L)
Partition Coefficient: n-octanol/water	: No Data Available
Auto-ignition Temperature	: No Data Available
Decomposition Temperature	: No Data Available
Viscosity	: No Data Available
Explosive Properties	: No Data Available
Oxidizing Properties	: No Data Available

Other Safety Information

No further relevant information available.

NOTE: These physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specifications for the product.

SECTION 10: STABILITY AND REACTIVITY**Reactivity**

No Data Available

Chemical Stability

Stable under normal temperatures and pressures.

Possibility of Hazardous Reactions

No dangerous reactions known.

Product Name: Smartfoil
Product Number(s): Not Applicable

Conditions to Avoid

Avoid temperature below 0°C, direct sunlight, moisture and elevated temperatures.

Incompatible Materials

No further relevant information available.

Hazardous Decomposition Products

No dangerous decomposition products known.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on Toxicological Effects

Acute toxicity

LD50 oral (rat, OECD 423) > 5000 mg/kg bw
 LD50 dermal (rat, OECD 402) > 5000 mg/kg bw

Skin Corrosion/Irritation

Not skin irritant (In Vitro Human skin, OECD 439)

Serious Eye Damage/Eye Irritation

Not eye irritant (rabbits, OECD 405)

Respiratory or Skin Sensitization

No reliable data

Germ Cell Mutagenicity

Not mutagenic (AMES test, OECD 471)

Carcinogenicity

ACGIH : No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
 IARC : No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
 NTP : No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
 OSHA : No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

SECTION 12: ECOLOGICAL INFORMATION

Toxicity

Toxicity to Fish : No Information Found
 Toxicity to Other Aquatic Invertebrates : 48h NOEC (OECD 202 - Daphnia magna) = 187 mg/L
 ErC50 (Pseudokirchneriella subcapitata, 72h, NF EN ISO 8692)= 2.8g.L, NOEC (72h)=0.076g/L
 Toxicity to earthworms: No mortality until 20L/ha (14 days, EN ISO 11268-1, 2012)

SAFETY DATA SHEET

Product Name: Smartfoil

Product Number(s): Not Applicable

Persistence and Degradability

Biodegradability : This substance is considered to be readily biodegradable.
Biochemical Oxygen Demand (BOD) : No Data Available

Bioaccumulative Potential

No data available.

Mobility in Soil

No data available.

Results of PBT and vPvB Assessment

PBT : Not Applicable
vPcB : Not Applicable

Other Adverse Effects

No further relevant information available.

SECTION 13: DISPOSAL CONSIDERATIONS

Product

Waste product residues should not be disposed of in sewers. Dispose of in accordance with federal, state and local requirements. Processing, use or contamination of this product may change the waste management options.

Contaminated Packaging

Dispose of container and unused contents in accordance with federal, state and local requirements.

SECTION 14: TRANSPORTATION INFORMATION

The data provided in this section is for information only. Please apply the appropriate regulations to properly classify your shipment for transportation.

Regulator : Domestic (Land, DOT)
Proper Shipping Name : Not Regulated
Hazard Class : Not Regulated
UN/NA : Not Regulated
Packing Group : Not Regulated

Regulator : International (Water, IMO / IMDG)
Proper Shipping Name : Not Regulated
Hazard Class : Not Regulated
UN/NA : Not Regulated
Packing Group : Not Regulated

SAFETY DATA SHEET

Product Name: Smartfoil

Product Number(s): Not Applicable

Regulator	: International (Air, ICAO / IATA)
Proper Shipping Name	: Not Regulated
Hazard Class	: Not Regulated
UN/NA	: Not Regulated
Packing Group	: Not Regulated

SECTION 15: REGULATORY INFORMATION

SARA

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

Section 313 Specific Toxic Chemical Listings : 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 Substances Control Act)

This product is exempted from TSCA listing requirements and falls under the jurisdiction of USDA.

California Prop 65

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

State Right to Know Components

Massachusetts : No components are subject to the Massachusetts Right to Know Act.

Pennsylvania : No components are subject to the Pennsylvania Right to Know Act.

New Jersey : No components are subject to the New Jersey Right to Know Act.

Additional Information

Clean Air Act : This material does not contain any hazardous air pollutants.
This material does not contain any Class 1 Ozone depleters.
This material does not contain any Class 2 Ozone depleters.

Clean Water Act : None of the chemicals in this product are listed as Hazardous Substances under the CWA.
None of the chemicals in this product are listed as Priority Pollutants under the CWA.
None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

SAFETY DATA SHEET

Product Name: Smartfoil
Product Number(s): Not Applicable

HMIS Rating (scale 0 – 4)

Health Hazard : 0
 Chronic Health Hazard : 0
 Flammability : 0
 Physical Hazard : 0

NFPA Rating (scale 0 – 4)

Health Hazard : 0
 Fire Hazard : 0
 Reactivity Hazard : 0
 Special : Not Applicable

SECTION 16: OTHER INFORMATION

SDS Issue Date : October 5, 2018

SDS Revision Number : v3

Supersedes Issue Date : Not Applicable

Summary of Changes

Revision No.	Changes
Original	<ul style="list-style-type: none"> New SDS

Disclaimer

The information in this SDS was obtained from current and reliable sources. However, the data is provided without any warrant, expressed or implied, regarding its correctness or accuracy. Since the use, handling, storage and disposal of this product are beyond our control, it is the responsibility of the user both to determine safe conditions for the use of this product and to assume liability of loss, damage, or expense arising out of the product's improper use. No warranty expressed or implied regarding the product described herein shall be created by or inferred from any statement or omission in this SDS. Various Federal, State or Provincial agencies may have specific regulations concerning the transportation, handling, storage, use, or disposal of this product which may not be reflected in this SDS. The user should review these regulations to ensure full compliance.