



MATERIAL SAFETY DATA SHEET
 according to Regulation (EU) No. 1907/2006

InnoChange by Innofil3D BV

1. IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY

Trade name	: InnoChange Thermo Grey
Chemical name	: Polylactic Acid compound
Chemical family	: Thermoplastic Polylactic Acid
Use	: Monofilament for 3D-printing
Company	: Innofil3D BV
Street address	: Eerste Bokslootweg 17
Postal code and city	: 7821 AT Emmen
Country	: The Netherlands
Telephone number	: +31 (0) 591 820 389

2. HAZARDS IDENTIFICATION

Component	: 4,4-Isopropylidenediphenol (Bisphenol A)
Percentage	: 5 - 15 %
Symbol	: Xn (harmful)
Index R-phrases	: R37 Irritating to respiratory system. R41 Risk of serious damage to eyes. R43 May cause sensitization by skin contact. R52 Harmful to aquatic organisms. R62 Possible risk of impaired fertility



3. COMPOSITION/INFORMATION ON INGREDIENTS

Description : PLA with microencapsulated additive

Chemical name : Polylactic Compound

CAS Number : 9051-89-2

Weight : > 98%

OSHA Exposure Limits : None

ACGIH Exposure Limits : None

Dangerous and hazardous components

CAS Number : 80-05-7

Designation : 4.4-Isopropylidenediphenol (Bisphenol A)

% : 5 - 15 %

Symbol : Xn (harmful)

Index R-phrases : R37/41/43/52/62

EINECS : 201-245-8

4. FIRST-AID MEASURES

Eye contact : Rinse immediately with plenty of water, also under the eyelids if possible, for at least 15 minutes. Get medical attention.

Skin contact : Rinse immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician. Cool skin rapidly with cold water after contact with hot polymer.

Inhalation : Move to fresh air. Get medical attention.

Ingestion : Drink water as a precaution. Never give anything by mouth to an unconscious person. Do not induce vomiting without medical advice. Get medical attention immediately.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Dry chemical, dry foam, sand, CO₂.

Special firefighting procedures : Wear full protective clothing and self-contained breathing apparatus.



6. ACCIDENTAL RELEASE MEASURES	
Personal precautions	: Wear respirator, chemical safety goggles. Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.
7. HANDLING AND STORAGE	
Safe handling advice	: Avoid spilling. Maintain good housekeeping standards to avoid accumulation of dust.
Storage conditions	: Store in a cool, dry place. Avoid contact with liquids. Eliminate ignition sources. Avoid static charge build-up.
8. EXPOSURE CONTROLS/PERSONAL PROTECTION	
Technical protective	: Practice good personal hygiene.
Personal protective equipment	: Safety glasses with side shields are recommended for normal handling. Use protective gloves.
Hygiene measures	: Wash clothes, hand, and other exposed areas, before eating, drinking and smoking.
9. PHYSICAL AND CHEMICAL PROPERTIES	
Appearance	: Filament.
Color	: Thermochromic grey.
Physical state	: Solid.
Odor	: Sweet.
Boiling point/range	: Not applicable.
Decomposition temperature	: 250 °C (482°F).
Density	: ± 1.24 kg/m ³ .
pH	: Not applicable.
Vapor pressure	: Not applicable.
Vapor density	: Not applicable.
Evaporation rate	: Not determined.
Water solubility	: Partially dispersible.
Solubility in other solvents	: None known.



10. STABILITY AND REACTIVITY

Stability	: Stable under recommended storage conditions.
Conditions to avoid	: Temperatures above 240 °C.
Materials to avoid	: Oxidizing agents. Strong bases.
Decomposition	: Burning produces obnoxious and toxic fumes. Aldehydes. Carbon monoxide (CO) and Carbon dioxide (CO ₂).
Dangerous reactions	: Not applicable.

11. TOXICOLOGICAL INFORMATION

Acute toxicity	: Not applicable.
Reproductive toxicity	: No data is available on the product itself.
Carcinogenic effects	: No data is available on the product itself.
Skin	: May cause skin irritation. Caused very mild redness in dermal irritation studies using rabbits (slightly irritating). LD50/dermal/rabbit > 2000 mg/kg.
Eco toxicity effects	: LD50/oral/rat > 5000 mg/kg.

12. ECOLOGICAL INFORMATION

Mobility	: No data available.
Bioaccumulation	: Does not bioaccumulate. Inherently biodegradable.
Ecotoxicity effects	: EC50/72h/algae > 1100 mg/L

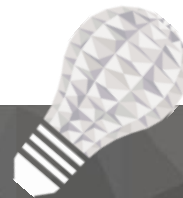
13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products

In accordance with local and national regulations. Do not contaminate ponds, waterways or ditches with chemicals or used containers.

14. TRANSPORT INFORMATION

IMDG	: Not regulated.
ICAO/IATA	: Not regulated.



15. REGULATORY INFORMATION

TSCA Inventory status : Y.
TSCA 12(b) export notification : Not listed.

CLASSIFICATION AND LABELING ACCORDING TO EU DIRECTIVES INDICATION OF DANGER:

Xn (harmful)

Hazard-determining components of labelling: 4,4-Isopropylidenediphenol

R37 Irritating to respiratory system.

R41 Risk of serious damage to eyes.

R43 May cause sensitization by skin contact.

R52 Harmful to aquatic organisms.

R62 Possible risk of impaired fertility

16. OTHER INFORMATION

- The information in this Material Safety Data Sheet (MSDS) is mainly based on information used from the supplier of the raw materials which are used for production of the filaments.
- The information in this Material Safety Data Sheet (MSDS) is based on current knowledge and experience. No liability can be assumed for the accuracy and completeness of this information.
- Users should consider this information only as additional to other data gathered. Independent determination of suitability and completeness of information from all available sources is essential to ensure proper and safe use and disposal of these materials.
- The information in this MSDS applies for this specific material only. It therefore does not apply for its usage in combination with other materials or ways of processing.