MATERIAL SAFETY DATA SHEET (MSDS)

Report No.:	BCTC2512588343-2R
Applicant:	Shenzhen Creality 3D Technology Co., Ltd.
Product Name:	3D Printer Filament
Test Model:	PAHT-CF
Issued Date:	2026-02-28
Prepared By:	Anne
Approved By:	Saher Chen

Shenzhen BCTC Testing Co., Ltd.

1 - Identification of the substance /preparation and of the company/undertaking

Product identifier

Product name	:	3D Printer Filament
Test Model	:	PAHT-CF
Model/Type Reference	:	Hyper BVOH, Hyper PA612-CF, Hyper PETG-GF, Soleyin Rainbow, Hyper Stardust, CR ABS, CR Nylon, CR PETG, CR PLA, CR PLA-Carbon, CR PLA Fluo, CR PLA Matte, CR Silk, CR TPR, CR TPU, CR Wood, EN PLA, Ender Fast PLA, Ender PETG, Ender PLA+, HP ASA, HP TPU, Hyper ABS, Hyper Marble, Hyper PA6-CF, Hyper PC, Hyper PETG, Hyper PETG-CF, Hyper PLA, Hyper PLA-CF, Hyper Rainbow, Hyper Light Weight PLA, Hyper Luminous, PPA-CF, Soleyin Basic PETG, Soleyin Ultra PLA, PA12-CF, Ender PLA Matte, Ender PLA+ Matte, Hyper Multi color
Country of origin	:	/
Export country	:	/
UFI number	:	No information available.
CAS number	:	Refer to section 3
Molecular formula	:	Refer to section 3

Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses	:	No information available.
Uses advised against	:	No information available.

Details of the supplier of the safety data sheet

Manufacture name	:	Shenzhen Creality 3D Technology Co., Ltd.
Address	:	18th Floor, JinXiuHongDu Building. Meilong Road,Xinniu Community, MinzhiStreet, Longhua District, Shenzhen City, China
Telephone	:	18617157320
E-mail	:	caolixiong@creality.com

Emergency telephone number

Emergency phone	:	/

2 - Hazards Identification

Hazards Classification

In accordance with Regulation (EC) No 1272/2008(CLP), the sample is divided into the following hazard category.

Physical hazard	:	Not classified as a physical hazard class.
Health hazard	:	Not classified as a health hazard class.
Environment hazard	:	Not classified as a environment hazard class.

Label elements

The product does not need to be labelled in accordance with Regulation (EC) No 1272/2008(CLP) or respective national laws.

Other hazards

None of the ingredients (≥0.1%) meets the criteria for PBT/vPvB in accordance with Annex XIII.
None of the ingredients (≥0.1%) is identified as having endocrine disrupting properties according to Regulation (EU) 2017/2100.

Invasion route	:	Skin touch, Eyes touch, Inhalation, Ingestion
Health hazards	:	No know significant effects or critical hazard to health.
Environment hazards	:	No know significant effects or critical hazard to environment.
Burn & burst danger	:	The sample is not flammable.

3 - Composition / Information on Ingredients

Substance/preparation: Preparation					
Component/Substance		Molecular Formula	Percent of Content (%)	CAS Number	Hazard Statement
Hyper BVOH	Butenediol vinyl alcohol copolymer	/	>95	/	/
Hyper PA612-CF	NYLON 6/12	$C_{18}H_{38}N_2O_4$	70-90	26098-55-5	/
	C	C	10-30	7440-44-0	/
Hyper PETG GF	Poly (ethylene terephthalateco-1,4-cylclohexylenedimethylene terephthalate)	$C_{11}H_{15}ClO_6$	90-95	25038-91-9	/
	Fiber Glass Wool	NaO_4PZn	5-10	65997-17-3	/
Soleyin rainbow	Polylactic Acid	$(C_3H_6O_3)x$	>90	26100-51-6	/
Hyper PLA Stardust	Polylactic Acid	$C_3H_6O_3$	>80	26023-30-3	/
CR-ABS	ABS Resins (Acrylonitrile-butadiene-styrene terpolymer)	$C_{15}H_{17}N$	>90	9003-56-9	/
CR-Nylon	Nylon	$C_{13}H_{26}N_2O_2$	70-85	32131-17-2	/
CR-PETG	Poly (ethylene terephthalateco-1,4-cylclohexylenedimethylene terephthalate)	$C_{11}H_{15}ClO_6$	>95	25038-91-9	/
CR PLA	Polylactic Acid	$(C_3H_6O_3)x$	92-96	26100-51-6	/
CR-PLA Carbon	Polylactic Acid	$(C_3H_6O_3)x$	>90	26100-51-6	/
	C	C	4-8	7440-44-0	/
CR-PLA Fluo	Polylactic Acid	$(C_3H_6O_3)x$	>90	26100-51-6	/

CR-PLA Matte	Polylactic Acid	$(C_3H_6O_3)x$	>90	26100-51-6	/
CR Silk	Polylactic Acid	$(C_3H_6O_3)x$	>90	26100-51-6	/
CR TPR	Thermoplastic polyurethanes	$C_{13}H_{25}BrN_2O$	>95	1211-14-9	/
CR-TPU	Thermoplastic polyurethanes	$C_{13}H_{25}BrN_2O$	>95	1211-14-9	/
CR-Wood	Polylactic Acid	$(C_3H_6O_3)x$	>30	26100-51-6	/
	1,4-Benzenedicarboxylic acid, 1,4-dimethyl ester, polymer with 1,4-butanediol and hexanedioic acid	$C_{20}H_{30}O_{10}$	＜30	55231-08-8	/
	Wood flour	/	＜30	/	/
	Processing aids	/	＜20	/	/
Ender PLA	Polylactic Acid	$(C_3H_6O_3)x$	>90	26100-51-6	/
Ender Fast PLA	Polylactic Acid	$(C_3H_6O_3)x$	>90	26100-51-6	/
Ender PETG	Poly (ethylene terephthalateco-1,4-cylclohexylenedimethylene terephthalate)	$C_{11}H_{15}ClO_6$	>92	25038-91-9	/
Ender PLA+	Polylactic Acid	$(C_3H_6O_3)x$	>92	26100-51-6	/
HP-ASA	ASA	/	97-100	25852-38-4	/
	Typical stabilizers & lubricants	/	0-3	/	/
HP TPU	Thermoplastic polyurethanes	$C_{13}H_{25}BrN_2O$	>90	1211-14-9	/
Hyper ABS	ABS Resins (Acrylonitrile-butadiene-styrene	$C_{15}H_{17}N$	>90	9003-56-9	/

	terpolymer)				
Hyper PLA Marble	Polylactic Acid	$(C_3H_6O_3)x$	>90	26100-51-6	/
Hyper PA6-CF	NYLON 6	$C_6H_{13}NO$	70-80	25038-54-4	/
	C	C	20-30	7440-44-0	/
Hyper PC	Polycarbonate	$C_{31}H_{32}O_7$	>95	25037-45-0	/
Hyper PETG	Poly (ethylene terephthalateco-1,4-cylclohexylenedimethylene terephthalate)	$C_{11}H_{15}ClO_6$	>95	25038-91-9	/
Hyper PETG-CF	Poly (ethylene terephthalateco-1,4-cylclohexylenedimethylene terephthalate)	$C_{11}H_{15}ClO_6$	90-95	25038-91-9	/
	C	C	5-10	7440-44-0	/
Hyper PLA	Polylactic Acid	$C_{18}H_{24}O_{12}$	>98	9051-89-2	/
Hyper PLA-CF	Polylactic Acid	$(C_3H_6O_3)x$	92-96	26100-51-6	/
	C	C	4-8	7440-44-0	/
Hyper PLA Rainbow	Polylactic Acid	$(C_3H_6O_3)x$	>90	26100-51-6	/
Hyper Lightweight PLA	Polylactic Acid	$(C_4H_6O_3)x$	70-80	31852-84-3	/
	Ethylene-vinyl acetate copolymer	$C_6H_{10}O_2$	10-20	24937-78-8	/
	Additives	/	5-10	/	/
Hyper Luminous PLA	Polylactic Acid	$(C_3H_6O_3)x$	>90	26100-51-6	/
Hyper PAHT-CF	NYLON 12	$C_{36}H_{69}N_3O_3$	>70	25038-74-8	/
	C	C	20	7440-44-0	/

Hyper PPA-CF	Polyphthalamide (PPA)	/	80	63428-84-2	/
	C	C	10-20	7440-44-0	/
Soleyin Basic PETG	Poly (ethylene terephthalateco-1,4-cylclohexylenedimethylene terephthalate)	$C_{11}H_{15}ClO_6$	>95	25038-91-9	/
Soleyin Ultra PLA	Polylactic Acid	$(C_3H_6O_3)x$	>92	26100-51-6	/
Hyper PA12-CF	NYLON 12	$C_{36}H_{69}N_3O_3$	>70	25038-74-8	/
	C	C	10-30	7440-44-0	/
Ender PLA Matte	Polylactic Acid	$(C_3H_6O_3)x$	>90	26100-51-6	/
Ender PLA+ Matte	Polylactic Acid	$(C_3H_6O_3)x$	>90	26100-51-6	/
Hyper multi PLA	Polylactic Acid	$(C_3H_6O_3)x$	>90	26100-51-6	/

4 - First Aid Measures

After skin contact	:	In case of irritation or sensitisation, wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.
After eye contact	:	IF IN EYES: Rinse cautiously with water for several minutes. If eye irritation persists: Get medical advice/attention.
After inhalation	:	Supply with fresh air. Call a POISON CENTER/doctor, if you feel unwell.
After ingestion	:	If swallowed, rinse mouth. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, immediately call a POISON CENTER or doctor/physician.
Most important symptoms and effects, both acute and delayed	:	No known symptoms or effects.
Indication of any immediate medical attention and special treatment needed	:	No data available.

5 - Fire Fighting Measures

Suitable Fire Extinguishing Media	:	Foam, carbon dioxide, dry chemical extinguishers.
Special Remarks On Fire Hazards	:	The sample is not flammable. The smoke of combustion may cause apnea, irritation.
Special Fire Fighting Procedures	:	As soon as possible, remove the goods from fire to open place. For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam. For large fires, Standing on the windward, Use water spray to cool fire-exposed containers.
Combustion Products	:	Carbon monoxide, carbon dioxide, nitrogen oxides and other unidentified product.
Protective Equipment	:	The staff must equipped with filter mask(full mask) or isolated breathing apparatus. The staff must wear the clothes which can defend the fire.

6 - Accidental Release Measures

Personal precautions, protective equipment and emergency procedures	:	Use personal protective equipment. Avoid breathing dust, smoke, vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas.
Measures for environment protection	:	Collect leaking, avoid environmental pollution, and prevent from spreading or entering into sewers, surface water and groundwater.
Methods and materials for containment and cleaning up	:	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.
Additional information	:	Prevent birds or fish feeding by the drainage system, must be completely recycled.

7 - Handling and Storage

Precautions for safe handing	:	Avoid formation of dust and aerosols. Avoid contact with skin and eyes. Operating personnel must train specially and follow close to the line of operating instruction. Avoid accumulate dust. Wear suitable protective clothing, gloves and eye/face protection. Packing require seal.
Conditions for safe storage, including any incompatibilities	:	Keep container tightly closed in a cool, well-ventilated place. Keep away from sources of ignition - No smoking. Keep separate with the oxidizing agent. Equip with relevant type and quantities of the extinguishment instruments. Keep the sample as a easy identification.

8 - Exposure Controls / Personal Protection

Maximum admissible concentration	:	No standard yet.
Monitoring Method	:	No data available.
Engineering Control	:	Equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.
Respiratory Protection	:	Wear suitable mask. If the dust density exceed in the air, must wear air-purifying respirators.
Eye Protection	:	Wear suitable chemical safety goggles.
Body Protection	:	Wear suitable safety cloth.
Hands Protection	:	Wear suitable protective gloves.
Other Protection	:	No smoking, dining and drinking water in the workplace. Keep good habit of hygiene. Shower and change clothes after work.

9 - Physical and Chemical Properties

Appearance	:	Solid	Odor	:	Odorless
Color	:	No data available.	pH	:	No data available.
Melting Point	:	No data available.	Density	:	No data available.
Boiling point	:	No data available.	Flashing Point	:	No data available.
Explosion Upper Limits	:	No data available.	Explosion Lower Limits	:	No data available.
Ignition temperature	:	No data available.	Decomposition temperature	:	No data available.
Solubility	:	No data available.			

10 - Stability and Reactivity

Stability	:	Stable under normal temperature and pressure
Conditions To Avoid	:	Avoid fire, elevated temperatures, direct sunlight.
Possibility of hazard reactions	:	No data available.
Incompatible materials	:	Incompatible with acids, oxidizing agents, basis etc.
Hazardous Decomposition Products	:	No data available.

11 - Toxicological Information

Acute Toxicity	:	No data available.
Skin corrosion/irritation	:	No data available.
Serious eye damage/ eye irritation	:	No data available.
Respiratory or skin Sensitization	:	No data available.
Germ cell mutagenicity	:	No data available.
Carcinogenicity	:	No data available.
Reproductive toxicity	:	No data available.
Specific target organ toxicity-single exposure	:	No data available.
Specific target organ toxicity-repeated exposure	:	No data available.
Aspiration hazard	:	No data available.
Endocrine disrupting properties	:	None of the ingredients (≥0.1%) is considered to have endocrine-disrupting properties with respect to humans, as none of them meet the criteria set out in section A of Regulation (EU) No 2017/2100.
Other information	:	No known other relevant information on adverse health effects.

12 - Ecological Information

Toxicity	:	No data available.
Persistence and degradability	:	No data available.
Bioaccumulative potential	:	No data available.
Mobility in soil	:	No data available.
Results of PBT and vPvB assessment	:	This mixture does not contain any substances (≥0.1%) that are assessed to be a PBT or a vPvB.
Endocrine disrupting properties	:	None of the ingredients (≥0.1%) is considered to have endocrine-disrupting properties with respect to non-target organisms, as none of them meet the criteria set out in section B of Regulation (EU) No 2017/2100.
Other adverse effects	:	It might cause pollution when released large-scale to the air, water.

13 - Disposal Considerations

Nature of waste	:	This product is not regarded as hazardous waste.
Waste disposal methods	:	Offer surplus and non-recyclable solutions to a licensed disposal company. Refer to National or Local regulations before handling.
Attention abandoned	:	Avoid abandon to the water.

14 - Transport Information

Transport Attentions:

During transportation, it is necessary to ensure that the container does not leak, fall, or be damaged. Corresponding types and quantities of fire-fighting equipment and emergency response equipment for leaks should be equipped during transportation. It is strictly prohibited to mix and transport with oxidants, acids, etc. During transportation, it should be protected from direct sunlight, rain, high temperatures, and kept away from sources of fire.

Please refer to section 7-Handling and Storage also, and requirements of the ADR-RID/PG, IMO/IMDG/PG, IATA/ICAO/PG.

Maritime transport IMDG Code 2024 Edition (Amendment 42-24)

UN-Number	:	Non-restricted goods.
Packing group	:	Not applicable.
Hazard class	:	Non-dangerous goods.
Proper shipping name	:	Not applicable.

DOT regulations (Subchapter C, Hazardous Materials Regulations if shipped in compliance with 49 CFR 173.185)

UN-Number	:	Non-restricted goods.
Packing group	:	Not applicable.
Hazard class	:	Non-dangerous goods.
Proper shipping name	:	Not applicable.

Land transport ADR/RID(cross-border)

UN-Number	:	Non-restricted goods.
Packing group	:	Not applicable.
Hazard class	:	Non-dangerous goods.
Proper shipping name	:	Not applicable.

Air transport ICAO-TI and IATA-DGR 67th Edition (2026)

UN-Number	:	Non-restricted goods.
Packing group	:	Not applicable.
Hazard class	:	Non-dangerous goods.
Proper shipping name	:	Not applicable.

15 - Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

German regulations concerning the classification of hazard for water(WGK)	:	Not listed.
Substance of Very High Concern (SVHC) according to Regulation (EC) No 1907/2006 (REACH) and its amendment Regulation (EU) No 2020/878	:	Not listed.
The conditions of restrictions according to Regulation (EC) No 1907/2006 (REACH) Article 67 and Annex XVII for the manufacturing, placing on the market and use must be observed	:	Not listed.
Regulation (EC) No 1907/2006 (REACH) Annex XVII (requiring authorization for use)	:	Not listed.
Regulation (EC) No 1907/2006 (REACH)-Pre-registered substance.	:	Not listed.
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	:	Not listed.
Regulation (EC) No 649/2012 concerning the export and import of dangerous chemicals, Annex I	:	Not listed.
ELINECS(European List of Notified Chemical Substances)	:	Not listed.
Chemical Safety Assessment	**:**	No data available.

16 - Other Information

Abbreviations and acronyms:

ADR	:	European Agreement concerning the International Carriage of Dangerous Goods by Road
CAS	:	Chemical Abstracts Service
CLP	:	Classification Packaging and Labelling
DOT	:	US Department of Transportation
IATA	:	International Air Transport Association
ICAO	:	International Civil Aviation Organization
IMDG	:	International Maritime Dangerous Goods
PBT	:	Persistent, Bioaccumulative and Toxic
RID	:	Regulations Relating to International Carriage of Dangerous Goods by Rail
UFI	:	Unique formula identifier
UN	:	The United Nations
vPvB	:	Very persistent and very bioaccumulative

Disclaimer:

The information in this Material Safety Data Sheet (MSDS) was obtained from sources which we believe are reliable; however, the information is provided without any representation of warranty, expressed or implied, regarding the accuracy or correctness. The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage, or expense arising out of or in any way connected with the handling, storage, use, or disposal of this product. All information, recommendations, and suggestions appearing herein concerning this product are taken from sources or based upon data believed to be reliable.

Photograph of Sample



Fig.1



Fig.2



Fig.3



Fig.4

STATEMENT

1. The equipment lists are traceable to the national reference standards.

2. The test report can not be partially copied unless prior written approval is issued from our lab.

3. The test report is invalid without the "special seal for inspection and testing".

4. The test report is invalid without the signature of the approver.

5. The test process and test result is only related to the Unit Under Test.

6. Sample information is provided by the client and the laboratory is not responsible for its authenticity.

7. The quality system of our laboratory is in accordance with ISO/IEC17025.

8. If there is any objection to this test report, the client should inform issuing laboratory within 15 days from the date of receiving test report.

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