

MATERIAL SAFETY DATA SHEET (MSDS)

Report No.: BCTC2501317015R

Applicant: Shenzhen Creality 3D Technology Co., Ltd

Product Name: HP-ASA, CR-TPR 65A, Hyper PC, CR-Nylon,
PPA-CF, Hyper PLA-CF, Hyper PLA, CR-ABS,
CR-PETG, HP-TPU

Test Model: /

Issued Date: 2025-01-14

Prepared By: *Willa*

Approved By: *Saher Chen*

Shenzhen BCTC Testing Co., Ltd.



1 - Identification of the substance /preparation and of the company/undertaking**Product identifier**

Product name : HP-ASA, CR-TPR 65A, Hyper PC, CR-Nylon, PPA-CF, Hyper PLA-CF,
Hyper PLA, CR-ABS, CR-PETG, HP-TPU

Test Model : /

Trademark

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 Crealiti 3D Technology Co., Ltd

Address : 18F, JinXiuHongDu Building, Meilong Blvd, Longhua Dist., Shenzhen,
China 518131

Telephone : /

E-mail : /

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.

GHS Classification according to Regulation (EC) No 1272/2008:

Acrylonitrile, CAS No.: 107-13-1

Flammable liquids, Category 2, H225

Carcinogenicity, Category 1B, H350

Acute toxicity, inhalation, Category 3, H331

Acute toxicity, dermal, Category 3, H311

Acute toxicity, oral, Category 3, H301

Specific target organ toxicity, single exposure; Respiratory tract irritation, Category 3, H335

Skin irritation, Category 2, H315

Serious eye damage, Category 1, H318

Skin sensitization, Category 1, H317

Hazardous to the aquatic environment, long-term hazard, Category 2, H411



GHS02 Flame



GHS05 Corrosion



GHS06 Skull and Crossbones



GHS08 Health Hazard



GHS09 Environment

Label elements

Hazard pictograms	:	    
Signal word	:	Danger H225 Highly Flammable liquid and vapor H301 Toxic if swallowed H311 Toxic in contact with skin. H315 Causes skin irritation.
Hazard statement(s)	:	

Precautionary statements-Prevention	H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H331 Toxic if inhaled. H335 May cause respiratory irritation. H350 May cause cancer. H411 Toxic to aquatic life with long lasting effects. P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P210 Keep away from heat, hot surface, sparks, open flames and other ignition sources. - No smoking. P233 Keep container tightly closed. P240 Ground/bond container and receiving equipment. P241 Use explosion-proof electrical/ventilating/lighting/equipment. P242 Use only non-sparking tools. P243 Take precautionary measures against static discharge. P261 Avoid breathing dust/fume/gas/mist/vapors/spray. P264 Wash skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area. P272 Contaminated work clothing should not be allowed out of the workplace. P273 Avoid release to the environment. P280 Wear protective gloves/protective clothing/eye protection/face protection. P281 Use personal protective equipment as required. P310 Immediately call a POISON CENTER or doctor/physician. P311 Call a POISON CENTER or doctor/physician. P312 Call a POISON CENTER or doctor/physician if you feel unwell. P321 Specific treatment (see supplemental first aid instructions on this label). P322 Specific measures (see supplemental first aid instructions on this label).
Precautionary statements-Response	P330 Rinse mouth. P361 Take off immediately all contaminated clothing. P362 Take off contaminated clothing. P363 Wash contaminated clothing before reuse. P391 Collect spillage. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor/physician. P302+P352 IF ON SKIN: wash with plenty of water. P303+P361+P353 IF ON SKIN (or hair): Take off Immediately all

contaminated clothing. Rinse SKIN with water [or shower].

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P332+P313 IF SKIN irritation occurs: Get medical advice/attention.

P333+P313 IF SKIN irritation or rash occurs: Get medical advice/attention.

P370+P378 In case of fire: Use sand, foam, carbon dioxide and dry powder extinguishers to extinguish.

P405 Store locked up.

Precautionary
statements-Storage

: P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P403+P235 Store in a well-ventilated place. Keep cool.

Precautionary
statements-Disposal

: P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards

None of the ingredients ($\geq 0.1\%$) meets the criteria for PBT/vPvB in accordance with Annex XIII.

None of the ingredients ($\geq 0.1\%$) is identified as having endocrine disrupting properties according to Regulation (EU) 2017/2100.

3 - Composition / Information on Ingredients

PLA:

Substance/preparation: Preparation				
Component/Substance	Molecular Formula	Percent of Content (%)	CAS Number	Hazard Statement
Poly(lactic Acid)	$(C_3H_6O_3)_x$	80-90	26100-51-6	/
Polymer of vinyl acetate and ethylene	$(C_4H_6O_2 \cdot C_2H_4)_x$	10-20	24937-78-8	/

ABS:

Substance/preparation: Preparation				
Component/Substance	Molecular Formula	Percent of Content (%)	CAS Number	Hazard Statement
Acrylonitrile butadiene styrene plastic	$(C_8H_8 \cdot C_4H_6 \cdot C_3H_3N)_x$	>98	9003-56-9	/

ASA:

Substance/preparation: Preparation				
Component/Substance	Molecular Formula	Percent of Content (%)	CAS Number	Hazard Statement
Acrylate	$C_3H_5N_2O_3$	30	140-95-4	/
Acrylonitrile	C_3H_3N	30	107-13-1	     Flammable liquids, Category 2, H225 Carcinogenicity, Category 1B, H350 Acute toxicity, inhalation, Category 3, H331 Acute toxicity, dermal, Category 3, H311 Acute toxicity, oral, Category 3, H301 Specific target organ toxicity, single exposure; Respiratory tract irritation, Category 3, H335 Skin irritation, Category 2, H315 Serious eye damage, Category 1, H318 Skin sensitization, Category 1, H317 Hazardous to the aquatic environment, long-term hazard, Category 2, H411
Graft copolymer of styrene	/	35	/	/

TPR:

Substance/preparation: Preparation				
Component/Substance	Molecular Formula	Percent of Content (%)	CAS Number	Hazard Statement
Polystyrene(PS)	(C ₈ H ₈) _n	50-70	9003-53-6	/

Hyper PC:

Substance/preparation: Preparation				
Component/Substance	Molecular Formula	Percent of Content (%)	CAS Number	Hazard Statement
Polycarbonate	(C ₁₅ H ₁₆ O ₂ ·CH ₂ O ₃) _x	>95	25037-45-0	/

CR-Nylon:

Substance/preparation: Preparation				
Component/Substance	Molecular Formula	Percent of Content (%)	CAS Number	Hazard Statement
Nylon	C ₃₆ H ₆₆ N ₆ O ₆	70-85	32131-17-2	/

PPA-CF:

Substance/preparation: Preparation				
Component/Substance	Molecular Formula	Percent of Content (%)	CAS Number	Hazard Statement
Polyphthalamide(PPA)	/	80	63428-84-2	/
Carbon Fiber	C	20-40	7440-44-0	/

Hyper PLA-CF:

Substance/preparation: Preparation				
Component/Substance	Molecular Formula	Percent of Content (%)	CAS Number	Hazard Statement
Polylactic Acid	(C ₃ H ₆ O ₃) _x	92-96	26100-51-6	/
Carbon Fiber	C	4-8	25014-41-9	/

CR-PETG:

Substance/preparation: Preparation				
Component/Substance	Molecular Formula	Percent of Content (%)	CAS Number	Hazard Statement
Polyethylene Terephthalate Glycol	/	80-90	25667-87-4	/

TPU:

Substance/preparation: Preparation				
Component/Substance	Molecular Formula	Percent of Content (%)	CAS Number	Hazard Statement
Thermoplastic polyurethanes	C ₃ H ₈ N ₂ O	>99	9009-54-5	/

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. 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.
- After ingestion : 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.
Measures for environment protection	:	Remove all sources of ignition. Evacuate personnel to safe areas.
Methods and materials for containment and cleaning up	:	Collect leaking, avoid environmental pollution, and prevent from spreading or entering into sewers, surface water and groundwater.
Additional information	:	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.
	:	Prevent birds or fish feeding by the drainage system, must be completely recycled.

7 - Handling and Storage

Precautions for safe handling	: 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	: No data available.
Color	: Black, beige, white, transparent	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 ($\geq 0.1\%$) 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 ($\geq 0.1\%$) that are assessed to be a PBT or a vPvB.
Endocrine disrupting properties	: None of the ingredients ($\geq 0.1\%$) 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:**

The products restrict the use of own steel tanker shipment when railway transport, submit to relevant departments for approval. The transport vehicles should be equipped with the appropriate variety and quantity of fire control equipment and emergency equipment for leakage. In summer, best transport in morning or evening. Transport tank should have grounding chain, the inner of tank should have baffle hole plate to reduce static electricity. Ban mixed operation with antioxidants, acid, alkali metal and amine. Prevent insoluble, rain and heat in transit. Keep away from fire, heat and high temperature when stopover. Exhaust pipes of transport vehicle must be equipped with fire retardant equipment. Ban load and unload with mechanical equipments and tools that easy to produce the spark. According to prescribed routes when road transport. Do not stay in residential area and densely populated area. Ban humping when railway transport. Ban bulk transport use wooden boats, concrete boats.

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 : No data available.
Packing group : No data available.
Hazard class : No data available.
Proper shipping name : No data available.

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

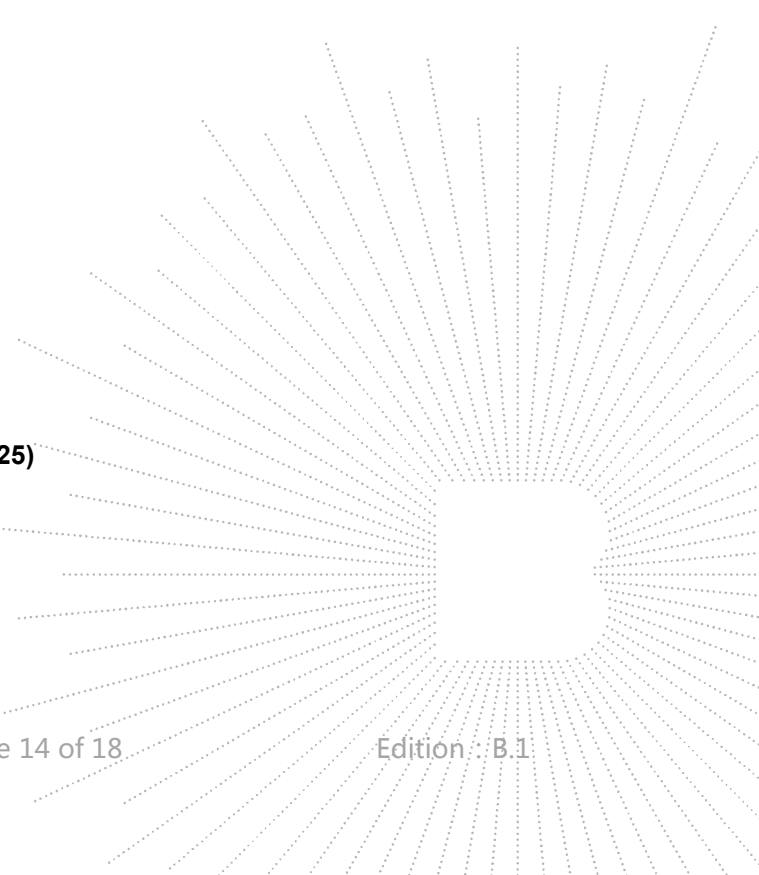
UN-Number : No data available.
Packing group : No data available.
Hazard class : No data available.
Proper shipping name : No data available.

Land transport ADR/RID(cross-border)

UN-Number : No data available.
Packing group : No data available.
Hazard class : No data available.
Proper shipping name : No data available.

Air transport ICAO-TI and IATA-DGR 66th Edition (2025)

UN-Number : No data available.
Packing group : No data available.
Hazard class : No data available.
Proper shipping name : No data available.



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



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.

Address:

1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Zhancheng, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China

TEL : 400-788-9558

P.C. : 518103

FAX : 0755-33229357

Website : <http://www.chnbctc.com>

Consultation E-mail : bctc@bctc-lab.com.cn

Complaint/Advice E-mail : advice@bctc-lab.com.cn

***** END *****