

PC-ABS-47

UPDATE: 1.09.2020

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier Trade name Filament PC-ABS-47 I 1,75mm.

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

1.2.1. Relevant identified uses Thermal processing: FDM/FFF

1.2.2. Uses advised against Not available.

1.3. Company

Producent/Dostawca: Omni3d sp z o.o.
Adres: ul. Św Michała 43 Poznań 61-119
Telefon: 886 618 690
Adres e-mail: sales@omni3d.com

1.4. Emergency telephone number EU-wide emergency number: 112

2. HAZARD IDENTIFICATION

2.1. Classification of the substance/mixture

GHS Classification not applicable.

2.2. Label elements

Hazard symbols not applicable.
Signal words not applicable.
Hazard statements not applicable.
Precautionary statements
Prevention not applicable.
Response not applicable.
Storage not applicable.
Disposal not applicable.

2.3. Other hazards

NFPA grade (0 ~ 4 level)
Health: 0; Flammability: 0; Reactivity: 0



3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Not applicable.

3.2. Mixtures

<i>Chemical Name</i>	<i>CAS No.</i>	<i>Content (%)</i>
Poly-4, 4'-isopropylidenediphenyl carbonate	24936-68-3	45 – 55
2-Propenenitrile polymer with 1,3-butadiene and ethenylbenzene	9003-56-9	45 – 55
Additive*	-	< 5

*Other ingredients which do not contribute to classification of the product

4. FIRST AID MEASURES

4.1. Description of first aid measures

Eye contact

Do not rub eyes. Immediately flush with plenty of water for at least 15 minutes and call a doctor/physician.

Skin contact

Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Laundering enough contaminated clothing before reuse.

Inhalation contact

When exposed to large amounts of steam and mist, move to fresh air. Take specific treatment if needed.

Ingestion contact

About whether I should induce vomiting take the advice of a doctor. Rinse your mouth with water immediately.

4.2. Most important symptoms and effects, both acute and delayed

Not available.

4.3. Indication of any immediate medical attention and special treatment needed

Notify medical personnel of contaminated situations and have them take appropriate protective measures.

5. FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable: dry chemical, carbon dioxide, regular foam extinguishing agent, spray.

Unsuitable: avoid use of water jet for extinguishing.

5.2. Special hazards arising from the substance or mixture

May ignite by heat, sparks, flames. Easy to burn, but not easy to fire. Irritating or toxic gases may occur by fire. Inhalation of materials may be harmful.



5.3. Advice for firefighters

Move containers from fire area, if you can do without the risk. Keep unauthorized personnel out. Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank. Notify your local fire station and inform the location of the fire and characteristics hazard. Using a unattended and water devices in case of large fire and leave alone to burn if you do not imperative. Keep containers cool with water spray.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Ventilate closed spaces before entering. Move container to safe area from the leak area. Remove all sources of ignition. Handling the damaged containers or spilled material after wearing protective equipment.

6.2. Environmental precautions

Prevent runoff and contact with waterways, drains or sewers. If large amounts have been spilled, inform the relevant authorities.

6.3. Methods and material for containment and cleaning up

Large spill: stay upwind and keep out of low areas. Dike for later disposal. Notification to central government, local government. When emissions at least of the standard amount. Dispose of waste in accordance with local regulations. Appropriate containers for disposal of spilled material collected. Small spills: appropriate container for disposal of spilled material collected. For disposal of spilled material in appropriate containers collected and clear surface.

6.4. Reference to other sections

No additional information.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Avoid direct physical contact. Comply with all applicable laws and regulations for handling. Do not handle until all safety precautions have been read and understood. Operators should wear antistatic footwear and clothing.

7.2. Conditions for safe storage, including any incompatibilities

Save in cool, dry and well ventilated place. Do not use damaged containers. Save applicable laws and regulations. Please pay attention to incompatibilities material and conditions to avoid. Keep sealed when not in use.

7.3. Specific end use(s)

None

8. EXPOSURE CONTROL/PERSONAL PROTECTION

8.1. Control parameters

Exposure limits

ACGIH TLV – not available

Engineering controls

A system of local and/or general exhaust is recommended to keep employee above the Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. The use of local exhaust ventilation is recommended to control emissions near the source. Follow the appropriate engineering controls because unconfirmed gases for hazard among extrusion process may expose.

8.2. Exposure controls

Respiratory protection

Under conditions of frequent use or heavy exposure, respiratory protection may be needed. Respiratory protection is ranked in order from minimum to maximum. Consider warning properties before use. Dust, mist, fume purifying respiratory protection. Any air-purifying respirator with a corpuscle filter of high efficiency. Any respiratory protection with a electromotion fan (for mist, dust, fume-purifying). Self-contained breathing apparatus with a corpuscle filter of high efficiency. For unknown concentration or immediately dangerous to life or health: any supplied-air respirator with full facepiece and operated in a pressure-demand or other positive-pressure mode in combination a separate escape supply. Any self-contained breathing apparatus with a full facepiece.

Eye protection

Wear primary eye protection such as splash resistant safety goggles with a secondary protection face shield. Provide an emergency eye wash station and quick drench shower in the immediate work area.

Hand protection

Wear appropriate glove.

Skin protection

Wear appropriate clothing.

Others

Not available.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance	solid (filament).
Odor	odourless.
Odor threshold	not applicable.
pH	not applicable.
Melting point/Freezing point	not applicable.
Initial Boiling Point/Boiling Ranges	not applicable.
Flash point	not applicable.
Evaporation rate	not applicable.
Flammability (solid, gas)	not applicable.
Upper/Lower Flammability or explosive limits	not applicable.
Vapour pressure	not applicable.
Solubility	insolubility (in water).
Vapour density	not applicable.
Specific gravity	1.05 ~ 1.35
Partition coefficient of n-octanol/water	not applicable.
Autoignition temperature	not applicable.
Decomposition temperature	over 400°C
Viscosity	not applicable.
Molecular weight	10 000 ~ 80 000 (main substance)

9.2. Other information

None

10. Stability and reactivity

10.1. Reactivity

This material is stable under recommended storage and handling conditions.

10.2. Chemical stability

This material is stable under conditions at room temperature and normal pressure.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur. Containers may explode if heated. Easy to burn, but not easy to fire. Irritating or toxic gases may occur by fire. Inhalation of materials may be harmful.

10.4. Conditions to avoid

Avoid contact with incompatible materials and condition. Avoid: accumulation of electrostatic charges, heating, flames and hot surface.

10.5. Incompatible materials

Combustible materials, irritating, toxic gases.

10.6. Hazardous decomposition products

Not available.

11. TOXICOLOGICAL INFORMATION

11.1. Acute toxicity

Oral – not available.

Dermal – not available.

Inhalation – not available.

11.2. Skin corrosion/irritation

Not available.

11.3. Eye corrosion/irritation

Not available.

11.4. Respiratory sensitization

Not available.

11.5. Skin sensitization

Not available.

11.6. Mutagenicity

Not available.

11.7. Carcinogenicity

IRAC – not available.

OSHA – not available.

ACGIH – not available.

NTP – not available.

EU CLP – not available.

11.8. Reproductive toxicity

Not available.

11.9. Specific target organ toxicity (single exposure)

Not available.

11.10. Specific target organ toxicity (repeated exposure)

Not available.

11.11. Aspiration hazard

Not available.



12. ECOLOGICAL INFORMATION

12.1. Toxicity

Fish

[2-Propenenitrile polymer with 1,3-butadiene and ethenylbenzene] : LC50 11.5 mg/ℓ 96 hr Pimephales promelas

Crustaceans

Not available.

Algae

Not available.

12.2. Persistence and degradability

Persistence – not available.

Degradability – not available.

12.3. Bioaccumulative potential

Not available.

12.4. Mobility in soil

Not available.

12.5. Results of PBT and vPvB assessment

Not available.

12.6. Other adverse effects

Not available.

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Since more than two kinds of designated waste is mixed, it is difficult to treat separately, then can be reduction or stabilization by incineration or similar process. If water separation is possible, pre-proces with water separation process. Dispose by incineration.

14. TRANSPORT INFORMATION

14.1. Un number

Not available.

14.2. UN proper shipping name

Not available.



14.3. Transport hazard class(es)

Not available.

14.4. Packing group

Not available.

14.5. Environmental hazard

Not available.

14.6. Special precautions for user

Local transport follows in accordance with Dangerous goods Safety Management Law. Package and transport follow in accordance with Department of Transportation (DOT) and other regulatory agency requirements.

EmS FIRE SCHEDULE: not available.

EmS SPILLAGE SCHEDULE: not available.

ADR/RID: not regulated as dangerous goods.

IATA: not regulated as dangerous goods.

IMDG: not regulated as dangerous goods.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not available.

15. REGULATORY INFORMATION

15.1. Safety, health and environmental regulation/legislation specific for the substance or mixture

POPs Management Law not applicable.

Information of EU Classification

Classification not applicable.

Risk Phrases not applicable.

Safety Phrase not applicable.

US Federal regulations

OSHA PROCESS SAFETY (29CFR1910.119) not applicable.

CERCLA Section 103 (40CFR302.4) not applicable.

EPCRA Section 302 (40CFR355.30) not applicable.

EPCRA Section 304 (40CFR355.40) not applicable.

EPCRA Section 313 (40CFR372.65) not applicable.

Rotterdam Convention listed ingredients not applicable.

Stockholm Convention listed ingredients not applicable.

Montreal Protocol listed ingredients not applicable.

15.2. Chemical safety assessment

No additional information.

16. OTHER INFORMATION

16.1. Indication of changes

No additional information.



16.2. Abbreviations and acronyms

ACGIH American Conference of Governmental Industrial Hygienists
 CCRIS Chemical Identification/Dictionary
 ChemIDplus Chemical Identification/Dictionary
 CICADs Concise International Chemical Assessment Documents
 CPDB Carcinogenic Potency Database
 CTD Comparative Toxicogenomic Database
 ERG Emergency Response Guidebook
 ESIS European Chemical Substances Information System
 HSDB Hazardous Substances Data Bank
 IARC International Agency for Research on Cancer
 ICSCs International Chemical Safety Cards
 IRIS Integrated Risk Information
 IUCLID International Uniform Chemical Information Database
 JECFA Joint Expert Committee on Food Additives
 NLM National Library of Medicine
 NTP Nation Toxicity Program
 PDs Pesticide Documents
 KOSHA Korea Occupational safety & Health Agency.

16.3. Key literature references and sources for data

The product safety data sheet has been prepared based on the documentation provided by the manufacturer of the granulate from which the filament product was made.

16.4. Relevant R phrases and H statements

No additional information.

16.5. Training advice

No additional information.

16.6. Further information

To the best of our knowledge, the information contained in this statement is accurate as of the date of publication. The information relates only to the product identified in this document when not used in conjunction with other products or materials. Omni3D Sp. z o.o. makes no warranties, expressed or implied, and assumes no liability in connection with the use of this information.

Omni3D Sp. z o.o. ensures that the product complies with the written specification when it leaves the factory. All other express or implied warranties and unlimited warranties of merchantability or fitness for a particular purpose are not provided.

The buyer confirms that it has sole control and can take responsibility that it has purchased a product that is fit for its purpose and will use it for its intended purpose. Any help and advice provided by Omni3D Sp. z o.o. in relation to the product, including formulation, manufacturing and testing for use or application of the product for the purposes specified by the purchaser, is made without warranty of any kind, including express or implied warranties of merchantability or fitness for a particular purpose.

Omni3D Sp. z o.o. is not liable for consequential or indirect damages. Any possible redress of the purchaser's claims (including claims for breach of warranty, negligence and liability for the risk taken) is limited to the replacement of the non-conforming product or the refund of the purchase price of the non-conforming product, or, for services, re-preparation of the material.

