

ASA

SAFETY DATA SHEET



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

Product identifier	
Trade name	Filament ASA 1,75mm; Filament ASA 2,85mm
Relevant identified uses of the substance or mixture and uses advised against	
Relevant identified uses	Thermal processing: FDM/FFF
Uses advised against	Do not use without advised use
Details of the supplier of the safety data sheet	
Manufacturer/Supplier	VSHAPER Sp. z o.o.
Address	Tajęcina 105, 36-002 Jasionka-Rzeszów
Telephone	+48 801 011 637
Email	contact@vshaper.com
Emergency telephone number	EU-wide emergency number: 112

2. HAZARD IDENTIFICATION

Classification of the substance/mixture	GHS Classification: not applicable
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
Other hazards	
NFPA grade (0 – 4 level) Health: 0, Flammability: 0, Reactivity: 0.	

3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures	Not applicable	
Substances		
Chemical Name	CAS No.	Content (%)
2-Propenoic acid butyl ester polymer with ethenylbenzene and 2-propenenitrile	26299-47-8	90 – 99,9
Additive*	-	0,1 – 1
Dodatki	-	< 3

4. FIRST AID MEASURES

Eye contact	Do not rub your eyes. Immediately flush eyes 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.
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.
Most important symptoms and effects, both acute and delayed	Not available
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

Extinguishing media	<p>Suitable extinguishing media Dry chemical, carbon dioxide, regular foam extinguishing agent, spray.</p> <p>Unsuitable extinguishing media Avoid use of water jet for extinguishing</p>
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.

Advice for firefighters

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. Avoid inhalation of materials or combustion by-products. Do not access if the tank on fire. Keep containers cool with water spray.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Must work against the wind, let the upwind people to evacuate. Do not touch spilled material. Stop leak if you can do it without risk. Move container to safe area from the leak area. Handling the damage containers or spilled material after wearing protective equipment.

Environmental precautions

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

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 regulation. Appropriate container for disposal of spilled material collected.

Small liquid state spills

Appropriate container for disposal of spilled material collected. For disposal of spilled material in appropriate containers collected and clear surface

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 information on disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Since emptied containers retain product residue (vapor, liquid, solid) follow all MSDS and label warnings even after container is emptied. Get manual before use. Operators should wear antistatic footwear and clothing.

Conditions for safe storage, including any incompatibilities

Check regularly for leaks. Do not use damaged containers. Do not apply direct heat. Do not apply any physical shock to container. Keep sealed when not in use.

Specific end use(s)

No data available

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Control parameters	ACGIH TLV – not available
Exposure controls	
Engineering controls	A system of local and/or general exhaust is recommended to keep employee exposures 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 unconfined gases for hazard among extrusion process may expose.
Personal protective equipment	
Respiratory protection	<ul style="list-style-type: none"> • 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 dust, mist, 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 with a separate escape supply. Any self-contained breathing apparatus with a full facepiece.
Eye protection	<ul style="list-style-type: none"> • 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
Other	Not available

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties	
Appearance	solid (filament).
Odor	odorless.

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 (solubility in water).
Vapour density	not applicable.
Specific gravity	1,0 – 1,2
Partition coefficient of n-octanol/water	not applicable.
Autoignition temperature	over 400°C.
Decomposition temperature	not applicable.
Viscosity	not applicable.
Molecular weight	not applicable.
Other information	No data available

10. STABILITY AND REACTIVITY

Reactivity	This material is not reactivity under recommended storage and handling conditions.
Chemical stability	This material is stable under recommended storage and handling conditions.
Possibility of hazardous reactions	Hazardous
Conditions to avoid	Avoid contact with incompatible materials and condition. Avoid accumulation of electrostatic charges, heating, flames and hot surface.
Incompatible materials	Not available
Hazardous decomposition products	Not available

11. TOXICOLOGICAL INFORMATION

Acute toxicity	Oral O[2-Propenoic acid butyl ester polymer with ethenylbenzene and 2-propenenitrile] : LD50 > 5000 mg/kg Rat Dermal [2-Propenoic acid butyl ester polymer with ethenylbenzene and 2-propenenitrile] : LD50 > 2000 mg/kg Rabbit Inhalation Not available.
Skin corrosion/irritation	Not available
Eye corrosion/irritation	Not available
Respiratory sensitization	Not available
Skin sensitization	Not available
Mutagenicity	Not available
Carcinogenicity	IARC Not available OSHA Not available ACGIH Not available NTP Not available EU CLP Not available
Reproductive toxicity	Not available
Specific target organ toxicity (single exposure)	Not available
Specific target organ toxicity (repeated exposure)	Not available
Aspiration hazard	Not available

12. ECOLOGICAL INFORMATION

Toxicity	Fish Not available Crustaceans Not available Algae Not available.
Persistence and degradability	Persistence [2-Propenoic acid butyl ester polymer with ethenylbenzene and 2-propenenitrile] : (Not applicable) Degradability Not available.
Bioaccumulative potential	Not available
Mobility in soil	Not available

Results of PBT and vPvB assessment	Not available
Other adverse effects	Not available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal 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- process with water separation process. Dispose by incineration.

Special precautions for disposal

The user of this product must disposal by oneself or entrust to waste disposer or person who other's waste recycle and dispose, person who establish and operate waste disposal facilities. Dispose of waste in accordance with all applicable laws and regulations.

14. TRANSPORT INFORMATION

Un number	Not available
UN proper shipping name	Not available
Transport hazard class(es)	Not available
Packing group	Not available
Environmental hazard	Not available
Special precautions for user	Local transport follows in accordance with Dangerous Goods Safe Management Law. Package and transport follow in accordance with Department of Transport (DOT) and other regulatory agency requirements. EmS FIRE SCHEDULE: Not available. EmS SPILLAGE SCHEDULE: Not available.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not available

15. REGULATORY INFORMATION

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
U.S. Federal regulations	
OSHA PROCESS SAFETY (29CFR1910.119)	Not applicable
CERCLA sekcja 103 (40CFR302.4)	Not applicable
Sekcja 304 EPCRA (40CFR355.40)	Not applicable
Sekcja 313 EPCRA (40CFR372.65)	Not applicable
EPCRA sekcja 302 (40CFR355.30)	Not applicable
Rotterdam Convention listed ingredients	
Rotterdam Convention listed ingredients	Not applicable
Stockholm Convention listed ingredients	
Stockholm Convention listed ingredients	Not applicable
Montreal Protocol listed ingredients	
Montreal Protocol listed ingredients	Not applicable
Chemical safety assessment	
Chemical safety assessment	Not applicable

16. OTHER INFORMATION

Indication of changes	Not available
Abbreviations and acronyms	<ul style="list-style-type: none"> • ACGIH American Conference of Governmental Industrial Hygienists • CCRIS Chemical Carcinogenesis Information • ChemIDplus Chemical Identification/Dictionary • CICADs Concise International Chemical Assessment Documents • CPDB Carcinogenic Potency Database • CTD Comparative Toxicogenomics Database • EHC Environmental Health Criteria • 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 • IPCS INCHEM International Programme on Chemical Safety • IRIS Integrated Risk Information • IUCLID International Uniform Chemical Information Database) • JECFA Joint Expert Committee on Food Additives • NLM National Library of Medicine • NTP National Toxicity Program • PDs Pesticide Documents • KOSHA Korea Occupational Safety & Health Agency

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.
Relevant R phrases and H statements	Not available
Training advice	Not available
Further information	

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