

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Not applicable.

3.2. Mixtures

<i>Name</i>	<i>CAS No.</i>	<i>% [weight]</i>	<i>Classification [67/548/EE C]</i>	<i>Classification [1272/2008/EC]</i>
2-Propenenitrile polymer with 1,3-butadiene and ethenylbenzene	9003-56-9	> 95	Not classified	Not classified
Additives	-	1 – 10	Not classified	Not classified

4. FIRST AID MEASURES

4.1. Description of first aid measures

General	No general information.
Inhalation	When exposed to large amounts of steam and mist, move to fresh air. Take specific treatment if needed
Skin	Flush skin with plenty of water at least 15 minutes while removing contaminated clothing and shoes. Laundering enough contaminated clothing before reuse
Eye	Do not rub your eyes. Immediately flush eyes with plenty of water for at least 15 minutes and call a doctor/physician.
Ingestion	About whether you 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 extinguishing media
Dry chemical, carbon dioxide, regular foam extinguishing agent, spray.

Unsuitable extinguishing media
Avoid use of water jet for extinguishing.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products: not available



5.3. Advice for firefighters

Keep unauthorized personnel out. Avoid inhalation of materials or combustion by-products.
Keep away if the tank is on fire. Use fire fighting procedures suitable for surrounding area

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel:

Protective equipment: wear proper protective equipment. Emergency procedures: not applicable.
If required, notify relevant authorities according to all applicable regulations.

For emergency responders:

Wear appropriate personal protective equipment as indicated in Section 8, and avoid contact with skin and inhalation. Before entering a closed room, it should be aired. Do not touch the spilled product. Stop leak if you can do it without risk. Handle damaged containers or spilled material wearing personal protective equipment.

6.2. Environmental precautions

Prevent runoff and contact with waterways, drains or sewers. If large amount have been spilled, inform the relevant authorities. Avoid dispersal of split material and runoff and contact with waterways, drains and sewers. If large spills, advise emergency services.

6.3. Methods and material for containment and cleaning up

For containment

Clear area of personnel and move up wind. Prevent, by any means available, spillage from drains or water course. No smoking, naked lights or ignition sources.

For 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.

Other information

Slippery when spilt.

6.4. 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

7.1. Precautions for safe handling

Refer to Engineering controls and personal protective equipment. Dealing only with a well-ventilated place. Operators should wear antistatic footwear and clothing.

7.2. Conditions for safe storage, including any incompatibilities

Do not expose to direct heat. Comply with applicable laws and regulations.

Do not shake the container. Store in original container



7.3. Specific end use(s)

See section 1 for information on 1.2. Relevant identified uses.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limits

European Union (EU) Commission Directive 2006/15/EC (IOELVs) not available
European Union (EU) Commission Directive 2006/15/EC (IOELVs) – skin not available

Recommended Monitoring Procedures

Personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

DNEL/PNEC – values

Not available.

8.2. Exposure controls

Appropriate engineering controls

A system of local and/or general exhaust is recommended to keep employee exposures above the Exposures 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.

Individual protection measures, such as personal protective equipment:

Hand protection: wear appropriate glove.

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.

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 respiratory 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 a full facepiece.

Skin protection:

Wear appropriate clothing.

Others:

It is necessary to wear protective clothes and other protection equipment. Cover your face, head and neck. Prior to removing protective garments the employee should undergo decontamination and be required to shower upon of the garments and hood. Emergency deluge shower and eyewash fountains, supplied with potable water, should be located near, within sight of, and on the same level with locations where direct exposure likely.

Thermal hazards:

not available.

Environmental exposure controls

Do not let product enter drains. For ecological information refer to section 12.



9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance (state)	Solid (fiber, filament)
Appearance (color)	Not available.
Odor	Not available.
Odor threshold	Not available.
pH	Not available.
Melting point/Freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/Lower Flammability or explosive limits	Not available.
Vapour pressure	Not available.
Vapour density	Not available.
Relative density	1,02 – 1,08
Solubility	Not available.
Partition coefficient of n-octanol/water	Not available.
Autoignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Explosive properties	Not available.
Oxidizing properties	Not available.

9.2. Other information

Not available.

10. Stability and reactivity

10.1. Reactivity

Not available.

10.2. Chemical stability

This material is stable under recommended storage and handling conditions.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur under normal conditions.

10.4. Conditions to avoid

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



10.5. Incompatible materials

Not available.

10.6. Hazardous decomposition products

May emit flammable vapour if involved in fire.

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

IARC 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 Not available

Invertebrate

Not available

Algae

Not available

12.2. Persistence and degradability

Persistence Not available

Degradability Not available

12.3. Bioaccumulative potential

Bioaccumulation Not available

Biodegradability 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 process with Water separation process. Dispose by incineration. 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

14.1. Un number

ADR/RID/AND Not available

IMDG Not available

ICAO Not available

14.2. UN proper shipping name

Not available



14.3. Transport hazard class(es)

ADR/RID/AND Class	Not available
ADR label No.	Not available
Transport hazard class(es)	Not available
ICAO Class/Division	Not available

14.4. Packing group

ADR/RID/AND Packing group	Not available
IMDG Packing group	Not available
ICAO Packing group	Not available

14.5. Environmental hazard

Not applicable

14.6. Special precautions for user

Local transport follows in accordance with dangerous good 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

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

Europe regulatory.

REACH Restricted substance under REACH Not applicable REACH Substance subject to authorization under REACH Not applicable REACH SVHC Not applicable Europe PBT Not applicable European Union (EU) Transport of Dangerous by Road – Dangerous Good List: Not applicable

15.2. Chemical safety assessment

Not conducted.

16. OTHER INFORMATION

16.1. Indication of changes

The Safety Data Sheet has been reviewed and the data therein were revised and laid out according the requirements of the Commission Regulation (EU) No. 453/2010.

16.2. Abbreviations and acronyms

1272/2008 CLP : Classification, Labelling and Packaging regulation.
 REACH : Registration, Evaluation and authorization of chemical substances.
 DNEL : Derive no effects level
 PNEC : Predicted no effect concentration



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

The classification of the mixture was obtained on the basis of the classification of individual components, in accordance with the principles set out in Regulation (EC) No 1272/2008 (CLP) and the translation tables in Annex VII to this Regulation.

16.5. Training advice

Not applicable.

16.6. Further information

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