

MATERIAL SAFETY DATA SHEET

Release date: 20-12-2016 | Update: 23.02.2017

COMPOSITUM
FILAMENT
SERIES™

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

- 1.1. Material name: ABS (Acrylonitrile Butadiene Styrene)
- 1.2. Chemical type: Thermoplastics
- 1.3. Material trade name: COMPOSITUM ABS ST
- 1.4. Supplier: CORO Technology Tomasz Kiełbasa
Złota Góra 27B
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- 1.5. Manufacturer: MIFON Andrzej Majorkiewicz
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- 1.6. In order: CORO Technology Tomasz Kiełbasa
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2. HAZARDS IDENTIFICATION

- 2.1. Threshold Limit - Not established
- 2.2. Effect of overexposure:
 - Eye contact - Solid may cause irritation or corneal injury due to mechanical action
 - Skin Contact - Essentially non irritating to skin, mechanical injury only
 - Skin Absorption - Unlikely due to physical properties
 - Ingestion - Unlikely due to physical state
 - Inhalation - In case of breathing in small and non-ventilated room, fumes released from heated material may cause respiratory irritation
 - Chronic Effects - Not Available
 - Mutagenicity - Not Available

3. COMPOSITION / INFORMATION ON INGREDIENTS

- 3.1. ABS (Acrylonitrile-Butadiene-Styrene) - >90% CAS:9003-56-9
- 3.2. Thermal stabilizers - 1~3%

- 3.3. Volatile particle binders <1%
- 3.4. Other processing substances 5-7%

Chemical composition reserved

4. FIRST AID MEASURES

- 4.1. Eye contact - Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor. Remove contact lenses, if present and easy to do.
- 4.2. Skin contact - Essentially nonirritating to skin but rinse with copious water and soap. If skin irritation continues, consult a doctor. After contact with the molten product, cool rapidly with cold water. Do not pull solidified product away from the skin. Call a doctor immediately.
- 4.3. Ingestion - Rinse out mouth and then drink plenty of water. Do not induce vomiting! If symptoms persist consult a doctor.
- 4.4. Inhalation - In case of breathing, fumes released from heated material may cause respiratory irritation. In case of inhaling dense smoke, immediately remove a person to fresh air. If necessary, apply artificial respiration and seek medical attention immediately.
- 4.5. Mutagenicity - Not Available.

5. FIRE FIGHTING MEASURES

- 5.1. Flammable Properties
 - Flash point - None
 - Method used - Not applicable
 - Auto ignition Temperature - Not applicable
- 5.2. Extinguishing Media - Usually use water and use extinguishing media appropriate to surrounding conditions
- 5.3. Special Fire Fighting Procedure - Cool Containers with water spray. In closed stores, provide fire fighter with self- contained breathing apparatus in positive pressure mode
- 5.4. Usual Fire and Explosion Hazards - Irritating gases and dense smoke

6. ACCIDENTAL RELEASE MEASURES

- 6.1. Avoid formation of dust
- 6.2. Do not breathe dust
- 6.3. Keep away from ignition sources
- 6.4. Avoid contact with eyes
- 6.5. Danger of slipping on leaked/spilled product
- 6.6. Environmental precautions - Do not allow to enter sewers/ surface or ground water
- 6.7. Methods and material for containment and cleaning up - Allow to solidify. Pick up mechanically

7. HANDLING AND STORAGE

7.1. Handling

- Avoid formation of dust
- Keep spools lightly closed
- Avoid spools from getting wet

7.2. Storage

- Keep spools in a dry place

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Engineering Controls - General ventilation should be sufficient for most conditions. Local exhaust ventilation may be necessary for some operations

8.2. Personal Protective Equipment:

- Eye / Face Protection - Use safety glasses. If there is a potential for exposure to particles which could cause mechanical injury to the eye
- Skin Protection - No Precautions other than clean body-covering clothing should be needed
- Respiratory Protection - For most conditions, no respiratory protection should be needed, however, if handling at elevated temperatures without sufficient ventilation, use an approved air-purifying respirator.

8.3. Exposure Guideline - Although some of the additives used in this product may have exposure guidelines, these additives are encapsulated in the product and no exposure would be expected under normal handling conditions

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Appearance - Solid

9.2. Odor - Almost Odorless

9.3. Odor threshold - No data available

9.4. pH - Not applicable

9.5. Boiling Point - Not applicable

9.6. Melting point - Not applicable

9.7. Flash point - Not determined

9.8. Flammability (solid, gaseous) - Combustible at constant flame of fire

9.10. Ignition temperature - Not determined

9.11. Decomposition temperature - Not determined

9.12. Auto igniting - Product is not self-igniting

9.13. Danger of explosion - Not determined

9.14. Oxidizing properties - Not determined

- 9.15. Vapor pressure - Negligible
- 9.16. Density - > 1g/cm³ (> 8.345 lbs/gal)
- 9.17. Evaporation rate - Negligible
- 9.18. Solubility - Insoluble
- 9.19. Miscibility - Insoluble
- 9.20. Viscosity (dynamic/kinematic) - Not applicable

10. STABILITY AND REACTIVITY

- 10.1. Stability - Stable under normal condition
- 10.2. Chemical stability
- 10.3. Thermal decomposition / conditions to be avoided:
 - Avoid impact friction
 - Avoid impact heat
 - Avoid impact sparks
 - Avoid impact electrostatic charges
- 10.4. Conditions to avoid - No further relevant information available
- 10.5. Incompatible materials - Oxidizing agents
- 10.6. Hazardous decomposition products:
 - Irritant gases/vapors
 - Poisonous gases/vapors
 - Smoke
 - Carbon monoxide and carbon dioxide
 - Hydrocarbons
 - Hydrogen cyanide (prussic acid)
 - Styrene
 - Aldehyde
 - Phenol
 - Acrylonitrile
 - Nitrogen oxides (NO_x)

11. TOXICOLOGICAL INFORMATION

- 11.1. LD/LC50 values that are relevant for classification:
 - Oral LD50 > 5000 mg/kg (rat)
 - Dermal LD50 > 2000 mg/kg (rabbit)
- 11.2. Primary irritant effect:
 - On the skin: Dust particles may mechanically irritate the skin
 - On the eye: Dust particles may mechanically irritate the eye
- 11.3. Sensitization - No sensitizing effects known
- 11.4. Subacute to chronic toxicity - No data available
- 11.5. Additional toxicological information - When used and handled according to specifications,

the product does not have any harmful effects according to our experience and the information provided to us

11.6. Carcinogenic categories:

- IARC (International Agency for Research on Cancer) - None of the ingredients is listed
- NTP (National Toxicology Program) - None of the ingredients is listed

12. ECOLOGICAL INFORMATION

12.1. Environmental Fate:

- Movement & Partitioning - No bioconcentration is expected because of the high molecular weight (MW>1000). In the terrestrial environment, material is expected to remain in the soil. In the aquatic environment, material will sink and remain in the sediment
- Degradation & Persistence - This water insoluble polymeric solid is expected to be inert in the environment. Surface degradation is expected with exposure to sunlight. No appreciable biodegradation is expected

12.2. Ecotoxicity - Not Expected to be acutely toxic, but pellets, if ingested by waterfowl or aquatic life, may mechanically cause adverse effects

13. DISPOSAL CONSIDERATIONS

13.1. Disposal : Do not dump into any sewers, on the ground, or into any body of water.

13.2. All disposal methods must be in compliance with all Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with appliance laws are the responsibility solely of the waste generator.

13.3. For unused & uncontaminated product, the preferred options include sending to a licensed, permitted:

- Recycler
- Reclaim
- Incinerator or other thermal destruction device

14. TRANSPORT INFORMATION

14.1. UN-Number:

- DOT, ADR, IMDG, IATA - Not applicable

14.2. UN proper shipping name: » DOT, ADR, IMDG, IATA - Not applicable

14.3. Transport hazard class:

- DOT, ADR, IMDG, IATA - Not applicable

14.4. Environmental hazards - Not applicable

14.5. Special precautions for user - Not applicable

14.6. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code - Not

applicable

14.7. Transport/Additional information - Not dangerous according to the above specifications

15. REGULATORY INFORMATION:

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture US EPA TSCA:

- CERCLA Section 103 (40CFR302.4) - Not Listed
- SARA Section 311/312 (40CFR370.21) - Not listed
- SARA Section 313 (40CFR372.65) - Not listed
- SARA Section 355 (extremely hazardous substances) - Not listed
- TSCA (Toxic Substances Control Act) - Not listed
- STATE REGULATIONS (California Proposition 65) - Not listed

15.2. EUROPEAN REGULATIONS:

- EC NUMBER - Not assigned
- Directive 96/82/EC - does not apply

15.3. Cancerogenicity categories: » MAK (German Maximum Workplace Concentration) - None of the ingredients is listed

15.4. Product resp. its monomers are listed in:

- Toxic Substance Control Act TSCA (USA)
- Canadian Domestic Substance List DSL
- Existing and New Chemical Substance List ENCS (Japan)
- Korean Existing Chemicals List KECL
- Australian Inventory of Chemical Substances AICS (Australia)

15.5. Chemical safety assessment - A Chemical Safety Assessment has not been carried out

Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

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