

# SAFETY DATA SHEET



## Dynamism Breakaway

According to Hazard Communication Standard (29 CFR 1910.1200)

Version 1.0

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SDS record number: CSSS-TCO-010-130555

## 1. Product and Company Identification

### Product Information

**Material name**

Dynamism Breakaway

**CAS#**

See section 3

**Product use**

3D Printing Filament

### Supplier

**Dynamism, Inc.**

207 E Ohio St  
Suite 200  
Chicago, IL 60611

**Email**

sales@dynamism.com

**Toll-Free Phone**

800-711-6277

## 2. Hazards identification

### GHS classification

**Physical hazards**

Not classified

**Health hazards**

Skin corrosion/irritation, Category 2

Sensitization - skin, Category 1

Eye damage/irritation, Category 2A

ACUTE TOXICITY – INHALATION, Category 4

Sensitization - respiratory, Category 1

Specific target organ toxicity (single exposure), Category 3

Specific target organ toxicity (repeated exposure), Category 1

**Environmental hazards**

Not classified

### GHS label elements

**Hazard Pictograms****Signal word**

Danger

**Hazard statement**

Causes skin irritation.

May cause an allergic skin reaction

Causes serious eye irritation

Harmful if inhaled

May cause allergy or asthma symptoms or breathing difficulties if inhaled

May cause respiratory irritation

May cause damage to organs through prolonged or repeated exposure (Affected Organs) (Inhalation)

## Precautionary statement

### Prevention

Avoid breathing dust/fume/gas/mist/vapours/spray.  
Wash hands thoroughly after handling.  
Use only outdoors or in a well-ventilated area.  
Contaminated work clothing should not be allowed out of the workplace.  
Wear protective gloves/protective clothing/eye protection/face protection.  
[In case of inadequate ventilation] wear respiratory protection.

### Response

If on skin: Wash with plenty of water.  
If inhaled: Remove person to fresh air and keep comfortable for breathing.  
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
Get medical advice/attention if you feel unwell.  
If skin irritation or rash occurs: Get medical advice/ attention.  
If eye irritation persists: Get medical advice/attention.  
If experiencing respiratory symptoms: Call a POISON CENTER/doctor.  
Take off contaminated clothing and wash it before reuse.

### Storage

Store in a well-ventilated place. Keep container tightly closed. Store locked up.

### Disposal

Dispose of contents/container in accordance with local regulation.

### Other hazards

Not available.

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## 3. Composition / Information on Ingredients

This mixture doesn't contain any hazardous ingredients or hazardous ingredients with a concentration above the cut-off value.

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## 4. First Aid Measures

### First aid procedures

#### Eye contact

Immediately flush eyes with plenty of water. If easy to do, contact lenses should be removed during the flushing, by trained personnel. Occasionally hold the eyelids apart during the flushing to ensure rinsing the entire surface of the eye and lids with water. Get medical attention if irritation persists.

#### Skin contact

Wash thoroughly using copious water - remove contaminated clothing immediately. If skin irritation occurs (redness etc.), consult doctor.

#### Inhalation

Remove person from danger area. Supply person with fresh air and consult doctor according to symptoms.

#### Ingestion

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

#### Notes to physician

Treat symptoms.

## 5. Fire Fighting Measure

### Flammable properties

Not available.

### Extinguishing media

#### Suitable extinguishing media

Use extinguishing agents appropriate for surrounding fire.

#### Unsuitable extinguishing media

Not available.

### Firefighting equipment/instructions

In case of fire and/or explosion do not breathe fumes. Protective respirator with independent air supply. According to size of fire Full protection, if necessary. Dispose of contaminated extinction water according to official regulations.

### Hazardous combustion products

Oxides of carbon, oxides of nitrogen and other toxic fumes.

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## 6. Accidental Release Measures

### Personal precautions

Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. For personal protection see section 8.

### Environmental precautions

Do not let large amount of product enter drains.

### Methods for cleaning up

Sweep up and shovel. Keep in suitable, closed and properly labelled containers for disposal.

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## 7. Handling and Storage

### Handling

Avoid contact with skin and eyes. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

### Storage

Keep container tightly closed in a dry and well-ventilated place. Store away from incompatible materials.

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## 8. Exposure Controls / Personal Protection

### Control parameters: Occupational exposure limits

This mixture has no ingredients that have PEL, TLV, or other recommended exposure limit.

### Biological limit values

Avoid contact with skin and eyes. Keep away from sources of ignition - No biological exposure limits noted for the ingredient(s).

### Individual protection measures, such as personal protective equipment:

#### Eye / face protection

Chemical safety goggles.

### Skin protection

Wear suitable protective clothing to prevent skin exposure

### Respiratory protection

Suitable respiratory protective device recommended.

### General hygiene considerations

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing.

## 9. Physical & Chemical Properties

### Appearance

#### Physical state

Solid

#### Form

Solid

#### Color

Cream-colored

#### Odor

Not available

#### Odor threshold

Not available

#### pH

Not available

#### Vapor pressure

Not available

#### Melting point/Freezing point

210°C

#### Initial boiling point and boiling range

Not available

#### Flash point

Not available

#### Evaporation rate

Not available

#### Flammability (solid, gas)

Not available

#### Explosion limits

Not available

#### Vapor density

Not available

#### Relative density

1.20

#### Solubility (water)

Insoluble

#### Partition coefficient

Not available

#### Auto-ignition temperature

Not available

#### Decomposition temperature

Not available

#### Specific gravity

Not available

#### Flammability limits in air, upper, %by volume

Not available

#### Flammability limits in air, lower, % by volume

Not available

#### VOC

Not available

#### Percent volatile

Not available

#### Other data

##### Viscosity

Not available

## 10. Stability and reactivity

### Chemical stability

Material is stable under normal conditions.

### Conditions to avoid

Incompatible materials. Strong heat.

### Incompatible materials

Avoid contact with other chemicals, oxidizing agents, strong alkalis and strong acids.

### Hazardous decomposition products

Oxides of carbon, oxides of nitrogen and other toxic fumes.

### Possibility of hazardous reactions

No dangerous reactions known.

## 11. Toxicological Information

### Toxicokinetics, metabolism and distribution

#### Non-human toxicological data

Not available

### Information on toxicological effects

#### Acute toxicity

#### LDS0(Oral, Rat)

Not available

#### LD50(Dermal, Rabbit)

Not available

#### LCS0(Inhalation, Rat)

Not available

#### Skin corrosion/Irritation

Causes skin irritation.

#### Serious eye damage/irritation

Causes serious eye irritation

#### Respiratory or skin sensitization

May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled

#### Germ cell mutagenicity

Not classified

#### Carcinogenicity

Not classified

#### Reproductive toxicity:

Not classified

#### STOT- single exposure:

May cause respiratory irritation

#### STOT-repeated exposure:

May cause damage to organs through prolonged or repeated exposure (Affected Organs) (Inhalation)

#### Aspiration hazard

Not classified

## 12. Ecological Information

### Toxicity

ACUTE TOXICITY		TIME	SPECIES	METHOD	EVALUATION	REMARKS
LC50	N/A	96h	Fish	OECD203	N/A	N/A
EC50	N/A	48h	Daphnia	OECD202	N/A	N/A
EC50	N/A	72h	Algae	OECD 201	N/A	N/A

#### Persistence and degradability

Not available.

#### Bioaccumulative potential

Not available.

#### Mobility in soil

Not available.

#### Results of PBT&vPvB assessment

Not available.

#### Other adverse effects

No known significant effects or critical hazards.

## 13. Disposal Considerations

#### Disposal instructions

Dispose of contents/container in accordance with local/regional/national/international regulations.

#### Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is emptied.

## 14. Transport Information

### DOT

#### Basic shipping requirements

##### UN number

Not regulated

##### Proper shipping name

Not regulated

##### Hazard class

Not regulated

##### Packing group

Not regulated

##### Environmental hazards

No

### IATA

#### UN number

Not regulated

#### Proper shipping name

Not regulated

#### Transport hazard class(es)

Not regulated

#### Packing group

Not regulated

#### Environmental hazards

No

### IMDG

#### UN number

Not regulated

#### UN Proper shipping name

Not regulated

#### Transport hazard class(es)

Not regulated

#### Packing group

Not regulated

#### Environmental hazards

No

## 15. Regulatory Information

### US federal regulations

#### Toxic Substances Control Act (TSCA)

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)  
Not regulated

CERCLA Hazardous Substance List (40 CFR 302.4)  
Not listed

SARA 304 Emergency release notification  
Not regulated

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)  
Not regulated

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance  
Not listed

SARA 311/312 Hazardous chemical  
No

SARA 313 (TRI reporting)  
Not regulated

### Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List  
Not regulated

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)  
Not regulated

Safe Drinking Water Act (SDWA)  
Not regulated

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## 16. Other Information

### HMIS® ratings

Health: 3  
Flammability: 1  
Physical hazard: 0

### NFPA ratings

Health: 3  
Flammability: 1  
Instability: 0

### Disclaimer

The information herein is based on our present knowledge and given in good faith, but no warranty, express or implied, is made.

### Issue date

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