
1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product Name : Smart Tooling™ Material

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

Recommended Use : For Industrial and Research/Development use only

1.3 Details of the supplier of the safety data sheet

Company : Hawthorn Aero, Inc.
1964 Byers Road
Miamisburg, OH 45342
Telephone : 937-912-3250

1.4 Emergency telephone number

Emergency Phone : N/A – Not classified as a hazardous material

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910.1200 (OSHA HCS)

This product is an “article” and therefore not subject the HCS 2012 SDS and labeling requirements. There are no known physical or health hazards.

2.2 GHS Label elements, including precautionary statements

Pictogram: not applicable
Signal word: not applicable
Hazard statement(s): not applicable
Precautionary statement(s): not applicable

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

Upon machining or cutting, material may be irritating to the nose and throat. May cause eye or skin irritation. May be harmful if swallowed.

3. COMPOSITION/INFORMATION ON INGREDIENTS

The article is a cured, non-reactive, polymer-based composite. There are no known hazardous materials present to the user under normal use.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

If in contact with article, wash with soap and water. Consult a physician if symptoms develop.

In case of eye contact

Flush eyes with copious amounts of water for at least 15 minutes.

If swallowed

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

4.2 Most important symptoms and effects, both acute and delayed

The known symptoms and effects are described in the sections 2 and 11.

4.3 Indication of any immediate medical attention and special treatment needed

No data available

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Carbon oxides, nitrogen oxides (NO_x).

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

6.2 Environmental precautions

Do not let product enter drains, water courses, or the soil.

6.3 Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Use personal protective equipment. Avoid or minimize formation and accumulation of dust. Avoid contact of dust with skin and eyes. Provide appropriate exhaust ventilation at places where dust is formed. Dry powders can build static electricity charges when subjected to friction. Use normal measures for preventive fire protection.

7.2 Conditions for safe storage, including any incompatibilities

No special storage conditions exist.

7.3 Specific end use(s)

Apart from uses mentioned in section 1, no other specific uses are stipulated

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

N/A

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Provide appropriate exhaust ventilation at places where dust, vapor or mist is formed. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye protection

Safety glasses with side-shields conforming to EN 166 or ANSI Z87.1.

Skin protection

Handle with gloves as needed. Wash and dry hands after use.

Body protection

Wear protective clothing as needed.

Respiratory protection

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Properties

a) Appearance	Form: Solid article Color: Black
b) Odor	No odor
c) Odor Threshold	No data available
d) pH	No data available
e) Melting point/freezing point	No data available
f) Initial boiling point and boiling range	No data available
g) Flash point	No data available
h) Evaporation rate	No data available
i) Flammability (solid gas)	No data available
j) Lower explosivity limit	No data available
k) Vapor pressure	No data available
l) Vapor density	No data available
m) Relative density	No data available
n) Water solubility	No data available
o) Partition coefficient: n-octanol/water	No data available
p) Auto-ignition temperature	No data available
q) Decomposition temperature	No data available
r) Viscosity	No data available
s) Explosive properties	No data available
t) Oxidizing properties	No data available

9.2 Other data

No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity

Stable.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

Excessive heat: temperatures above 400 °C (752 °F). Open flame.

10.5 Incompatible materials

Strong oxidizing agents

10.6 Hazardous decomposition products

Other decomposition products - No data available

In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Oral: No data available

Inhalation: No data available

Dermal: No data available

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

No data available

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

Acute Symptoms:

May be irritating to the nose and throat upon inhalation. Material may be irritating to the mucous membranes and upper respiratory tract. Eye or Skin contact may cause irritation. May be harmful if swallowed.

Additional Information

RTECS: Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated

12. ECOLOGICAL INFORMATION

12.1 Toxicity

No data available

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not conducted

12.6 Other adverse effects

No data available

13. DISPOSAL INFORMATION

13.1 Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging

Dispose of as unused product.

14. Transportation Information

DOT (US)

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

15. Regulatory Information

California Proposition 65: This article may contain residual levels of precursor reactants that are on the Proposition 65 list.

No other information available

16. OTHER INFORMATION

Further information

Prepared By:
Hawthorn Aero, Inc.

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General Disclaimer:

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state or our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Hawthorn Aero, Inc., shall not be held liable for any damage resulting from handling or from contact with the above product.

End of Safety Data Sheet