

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Material name Expando FR 9mil TW

Version # 01

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CAS # Mixture

Product use Protective Sleeving.

Manufacturer information

Manufacturer/Supplier Federal-Mogul World Headquarters

26555 Northwestern Highway Southfield, Michigan 48033

USA

Contact person: msds.request@federalmogul.com
Emergency Telephone: 24hr EP (INFOTRAC): 1-800-535-5053
International: (001) 352-323-3500

2. Hazards Identification

Physical state Solid.

Appearance Solid (Sleeve).

Emergency overview Under normal conditions of processing and use, exposure to the chemical constituents in this

product is unlikely. Used as intended, this product is not expected to generate potentially

hazardous quantities of dust or fumes.

OSHA regulatory status This product is not hazardous according to OSHA 29CFR 1910.1200.

Potential health effects

Routes of exposure Not relevant, due to the form of the product in its manufactured and shipped state.

Eyes
No adverse effects due to eye contact are expected.

Skin
No adverse effects due to skin contact are expected.

Inhalation
Ingestion
Not relevant, due to the form of the product.

Chronic effects
Not relevant, due to the form of the product.

Signs and symptoms Not relevant, due to the form of the product.

Potential environmental effects Not relevant, due to the form of the product in its manufactured and shipped state.

3. Composition / Information on Ingredients

The manufacturer lists no ingredients as hazardous according to OSHA 29 CFR 1910.1200.

Composition comments

This product does not generate dust when used as intended.

4. First Aid Measures

First aid procedures

Eye contact No specific first aid measures noted. However, immediately flush with plenty of water for at least

15 minutes.

Skin contact

No adverse effects due to skin contact.

Inhalation

No specific first aid measures noted.

Ingestion No adverse effects due to ingestion are expected.

Notes to physician Treat symptomatically.

General advice Ensure that medical personnel are aware of the material(s) involved, and take precautions to

protect themselves.

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5. Fire Fighting Measures

Flammable properties This product is not flammable. May ignite at high temperature.

Extinguishing media

Suitable extinguishing

media

Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing

media

None.

Protection of firefighters

Specific hazards arising from the chemical

By heating and fire, toxic vapors/gases may be formed.

Protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting

equipment/instructions

Use standard firefighting procedures and consider the hazards of other involved materials.

Hazardous combustion

products

Carbon monoxide and carbon dioxide.

6. Accidental Release Measures

Personal precautions Used as intended, this product is not expected to generate potentially hazardous quantities of dust

or fumes. See Section 8 of the MSDS for Personal Protective Equipment.

Environmental precautions No special environmental precautions required.

Methods for containment Collect and dispose of spillage as indicated in Section 13 of the MSDS.

Methods for cleaning up No specific precautions.

7. Handling and Storage

Handling Normal handling and use of this product should not generate dust or fumes. The intended use of

this product does not include its milling, grinding or saw cutting. Observe good industrial hygiene

practices.

Storage Store in closed original container in a dry place. Store away from incompatible materials.

8. Exposure Controls / Personal Protection

Occupational exposure limits No exposure limits noted for ingredient(s).

Biological limit valuesNo biological exposure limits noted for the ingredient(s).

Engineering controls Used as intended, this product is not expected to generate potentially hazardous quantities of dust

or fumes.

Personal protective equipment

Eye / face protection No special precautions.

Skin protection No skin protection is ordinarily required under normal conditions of use.

Respiratory protection

No protection is ordinarily required under normal conditions of use and with adequate ventilation. No protection is ordinarily required under normal conditions of use. It is a good industrial hygiene

practice to minimize skin contact.

General hygiene considerations

Hand protection

Wash hands after handling.

9. Physical & Chemical Properties

Appearance Solid (Sleeve).

Physical stateSolid.FormSolid.

Color Black with white tracer or white with black tracer.

Odor Odorless.
Odor threshold Not applicable.
PH Not applicable.
Vapor pressure Not applicable.
Vapor density Not applicable.
Boiling point Not applicable.

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Melting point/Freezing point 482 °F (250 °C) Solubility (water) Insoluble in water. Specific gravity Not applicable. Flash point 698.0 °F (370.0 °C)

Flammability limits in air, upper, % by volume

Not applicable.

Flammability limits in air,

lower, % by volume

Not applicable.

Auto-ignition temperature 932 °F (500 °C) Not applicable. Viscosity 830 kg/m3 **Bulk density**

Other data

Decomposition temperature

> 662 °F (> 350 °C)

10. Chemical Stability & Reactivity Information

Chemical stability Material is stable under normal conditions.

Conditions to avoid None known. Incompatible materials None known.

Hazardous decomposition

products

Thermal decomposition of this product can generate carbon monoxide and carbon dioxide.

Possibility of hazardous

reactions

Will not occur.

11. Toxicological Information

Not a skin sensitizer. Sensitization

Acute effects Used as intended, this product is not expected to generate potentially hazardous quantities of

dust or fumes.

Chronic effects Not relevant, due to the form of the product. Carcinogenicity Not relevant, due to the form of the product.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Mutagenicity Not relevant, due to the form of the product. Reproductive effects Not relevant, due to the form of the product. Symptoms and target organs Not relevant, due to the form of the product. **Further information** Not relevant, due to the form of the product.

12. Ecological Information

Ecotoxicity Not relevant, due to the form of the product in its manufactured and shipped state. Not relevant, due to the form of the product in its manufactured and shipped state. **Environmental effects**

Not classified. **Aquatic toxicity** Persistence and degradability Not relevant. Bioaccumulation / Not relevant.

accumulation

Mobility in environmental

media

Not relevant, due to the form of the product.

Other adverse effects Not relevant.

13. Disposal Considerations

Disposal instructions Disposal recommendations are based on material as supplied. Disposal must be in accordance

with current applicable laws and regulations, and material characteristics at time of disposal.

Waste from residues / unused

products

Dispose of waste and residues in accordance with local authority requirements.

Contaminated packaging Since emptied containers retain product residue, follow label warnings even after container is

emptied.

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14. Transport Information

DOT

Not regulated as a hazardous material by DOT.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

TDG

Not regulated as dangerous goods.

15. Regulatory Information

US federal regulations

This product is not hazardous according to OSHA 29CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

CERCLA (Superfund) reportable quantity (lbs) (40 CFR 302.4)

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - No

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

No

chemical

Drug Enforcement Not controlled

Administration (DEA) (21 CFR

1308.11-15)

Canadian regulations This product has been classified according to the hazard criteria of the Canadian Controlled

Products Regulations, Section 33, and the MSDS contains all required information.

WHMIS status Non-controlled

Inventory status

Country(s) or region Inventory name On inventory (yes/no)*

CanadaDomestic Substances List (DSL)YesCanadaNon-Domestic Substances List (NDSL)No

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing

country(s).

State regulations This product does not contain a chemical known to the State of California to cause cancer, birth

defects or other reproductive harm.

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Not listed

US. Massachusetts RTK - Substance List

Not regulated.

US. New Jersey Worker and Community Right-to-Know Act

Not listed

US. Pennsylvania Worker and Community Right-to-Know Law

Not listed.

16. Other Information

Further information HMIS® is a registered trade and service mark of the NPCA.

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Yes

HMIS® ratings Health: 0

Flammability: 0 Physical hazard: 0

NFPA ratings



DisclaimerThe information provided on this data sheet was abstracted from supplier material safety data

sheets and standard references in occupational health and toxicology. Federal-Mogul makes no representation or warranty with respect to the information obtained from such references. The information is however, as of the date provided, true and accurate to the best of Federal-Mogul's knowledge, and should be used to make an independent determination of the methods to

safeguard workers and the environment.

Prepared by Federal-Mogul World Headquarters

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