

MATERIAL SAFETY DATA SHEET

FORESTADENT USA
2315 WELDON PARKWAY
ST. LOUIS, MO 63146

FORESTADENT USA EMERGENCY PHONE: 314-878-5985
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1. CHEMICAL PRODUCT IDENTIFICATION:

PRODUCT NAME: EXPANSION SCREWS

PRODUCT CODE: 167G1539; A167-1539; 167-1326; A167-1326; A167G1326;
167-1323; 167-1323S; 169-1323; 168-1223; 198-1223; 198-1623; 167M1529;
A167M1326

CHEMICAL FAMILY: N/A

CHEMICAL NAME: N/A

FORMULA: N/A

2. COMPOSITION/INFORMATION ON INGREDIENTS:

< 0.12 – Carbon

<1.5 – Silicon

<2.0 – Manganese

16-18 – Chromium

<0.8 – Molybdenum

<6.0-9.0 – Nickel

< .045 – Phosphorus

< .03 – Sulfur

(The rest of the composition is made up of Iron).

3. HAZARDS IDENTIFICATION:

POTENTIAL HEALTH EFFECTS:

SKIN CONTACT: Unlikely to cause skin irritation or injury. Molten material causes thermal burns. This material is unlikely to pass into the body through the skin.

INHALATION: This material is a dust or may produce dust. Breathing small amounts of this material during normal handling is not likely to cause harmful effects. Breathing large amounts may be harmful.

INGESTION: Swallowing this material is not likely to be harmful.

SYMPTOMS OF EXPOSURE: Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include: irritation (nose, throat, airways).

TARGET ORGAN EFFECTS: No data
DEVELOPMENTAL INFORMATION: No data
CANCER INFORMATION: No data

OTHER HEALTH EFFECTS: Thermal processing of this product can produce fumes and/or vapors. Components of these releases may vary with processing times and temperatures and therefore specific composition cannot be predicted. These fumes

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and/or vapors may product eye, skin and/or respiratory tract irritation. With repeated and prolonged exposure at high concentrations, these fumes and/or vapors could cause central nervous system depression (dizziness, drowsiness, weakness, fatigue, nausea, headache).

PRIMARY ROUTE(S) OF ENTRY: Inhalation, skin contact, eye contact.

4. FIRST AID MEASURES:

INHALATION:

First aid is not normally required. If symptoms develop, move individual away from exposure and into fresh air. If symptoms persist, seek medical attention.

SWALLOWING: First aid is not normally required. If symptoms develop, seek medical attention.

NOTE TO PHYSICIAN: Preexisting disorders of the following organs (or organ systems) may be aggravated by exposure to this material: lung (for example, asthma-like conditions).

5. FIRE FIGHTING MEASURES:

FLASH POINT: Not Applicable

EXPOSIVE LIMIT: No data

AUTOIGNITION: No data

6. ACCIDENTAL RELEASE MEASURES:

N/A

7. HANDLING AND STORAGE:

HANDLING: No adverse health effects are anticipated from the product at room temperature. However, at process temperatures, the product can emit fumes and vapors which may cause irritation of the eyes and respiratory tract. Any exposure will depend on processing technique and temperature, volume processed and the effectiveness of exhaust ventilation provided for the process.

SHELF LIFE: 2 YEARS

8. PERSONAL PROTECTION:

EXPOSURE CONTROLS: no exposure limits established.

EYE PROTECTION: Wear safety glasses in compliance with OSHA regulations.

SKIN PROTECTION: Wear normal clothing covering arms and legs. Other protective equipment: Consult your safety products supplier for proper protective equipment to use for thermal processing operations.

RESPIRATORY PROTECTIONS: If overexposure has been determined or documented, a NIOSH/MSHA jointly approved air supplied respirator is advised in absence of proper environmental control. OSHA regulations also permit other NIOSH/MSHA respirators under specified conditions. Engineering or administrative controls should be implemented to reduce exposure.

ENGINEERING CONTROLS: Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below level of overexposure (from known, suspected or apparent adverse effects).

9. PHYSICAL AND CHEMICAL PROPERTIES:

VAPOR PRESSURE: NO DATA

SPECIFIC VAPOR DENSITY: NO DATA

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SPECIFIC GRAVITY: NO DATA

LIQUID DENSITY: NO DATA

PERCENT VOLATILES: NO DATA

EVAPORATION RATE: NO DATA

APPEARANCE: NO DATA

PHYSICAL STATE: SOLID

COLOR: NO DATA

PH: NO DATA

ODOR: NO DATA

10. STABILITY AND REACTIVITY:

HAZARDOUS POLYMERIZATION: Product will not undergo hazardous polymerization.

STABILITY: STABLE

INCOMPATIBILITY: Avoid contact with: None known.

HAZARDOUS DECOMPOSITION: May form: carbon dioxide and carbon monoxide, toxic fumes.

11. TOXICOLOGICAL INFORMATION:

No Data.

12. ECOLOGICAL INFORMATION:

No Data.

13. DISPOSAL CONSIDERATIONS:

WASTE MANAGEMENT INFORMATION: Dispose of in accordance with all applicable local, state and federal regulations. For assistance with your waste management needs- including disposal, recycling and waste stream reduction, contact Ashland Distribution Company, 800.637.7922.

14. TRANSPORTATION INFORMATION:

DOT Information: 49 CFR 172.101

DOT Description: Non-Regulated by the DOT

Container/Mode: 55 Gal Drum/ Truck Package

NOS Component: None

RQ (Reportable Quantity) 49-CFR 172.101

Other Transportation Information: The DOT Transport Information may vary with the container and mode of shipment.

15. REGULATORY INFORMATION:

US FEDERAL REGULATIONS:

TSCA (Toxic Substance Control Act) Status TSCA (United States) The intentional ingredients of this product are listed.

CERCLA: 40 CFR 302.4 (a) None listed.

SARA 302 Components 40 CFR 355 Appendix A None

SECTION 311/312 Hazard Class 40 CFR 370.2 Immediate X

SARA 313 Components 40 CFR 372.65 None

OSHA Process Safety Management 29 CFR 1910 None listed

EPA Accidental Release Prevention 40 CFR 69 None listed.

INTERNATIONAL REGULATIONS: Inventory Status: DSL (Canada) The intentional ingredients of this product are listed.

State and Local Regulations: California Proposition 65

None

16. OTHER INFORMATION:

NFPA 1 1 0

0=MIMIMAL 1=SLIGHT 2=MODERATE 3=SERIOUS 4=SEVERE

Forestadent's method of hazard communication is comprised of Product Labels and Material Safety Data Sheets. HMIS ratings are provided by Forestadent as a customer service. The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable and suitable to their circumstances.

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