

Material Safety Data Sheet

RAKU-PUR[®] Foam

Version 1 (US) Prepared, March 30, 2009

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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: RAKU-PUR Foam**Product use:** Polyurethane manufacture**Manufacturer:**RAMPF Group Inc.
50714 Century Court
Wixom, MI 48393

Telephone : (248) 295 0223

Telefax : (248) 295 0224

Emergency Response Telephone : INFOTRAC 352 323 3500

2. HAZARD IDENTIFICATION

POTENTIAL HEALTH EFFECTS: (Also see section 11)

No harmful health effects are expected. Coarse dust can cause mechanical irritation of lungs and eyes.

Avoid breathing dust when milling cured product.

Molten material may cause burns.

Appearance/Odor: Uniform cellular solid structure of varying colors with slight characteristic odor.

Routes of Entry: Skin and eye contact and inhalation.

Carcinogenicity: NTP-No, IARC-No, OSHA-No

OSHA Hazard communication: This material is not considered hazardous by the OSHA Hazard Communication Standard. (29CFR1910.1200)

HMIS rating: Health: 0 Flammability: 1 Reactivity: 0

WHMIS Classification: Not regulated

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS #	% by wt.
Polyurethane foam	9009-54-5	100



4. FIRST AID MEASURES

SKIN: None necessary under normal conditions. Molten material may cause burns. If molten polymer contacts skin, cool rapidly with cold water. Do not attempt to peel off polymer from skin. Seek medical attention for thermal burns.

EYES: Hold eyes open and flush for at least 15 minutes with large amounts of water. Get medical attention if irritation occurs.

INGESTION: None necessary

INHALATION: Remove to fresh air. Contact a physician if respiratory discomfort persists.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Use dry chemical, water or carbon dioxide.

UNUSUAL FIRE & EXPLOSION HAZARDS: All polyurethane foams are combustible and can create a fire risk. If ignited, polyurethane foam can produce rapid flame spread, intense heat, dense black smoke and toxic gases. Material can melt into a burning liquid that can drip and flow. Accumulated polyurethane dust can be readily ignited and presents a fire risk. High concentrations of dust in air can explode if exposed to a flame, spark or other ignition sources.

FIRE FIGHTING Decomposition products flash at >500 °F. Use self-contained breathing apparatus and full protective clothing.

6. ACCIDENTAL RELEASE MEASURES

SPILL AND LEAK PROCEDURES:

No special measures required – just sweep up and dispose according to local regulations.

7. HANDLING AND STORAGE

HANDLING: No special measures required. Keep away from ignition sources and intense heat. Do not smoke. Do not allow foam scrap and cuttings to accumulate and maintain work area and exits clear.

STORAGE: Inventories of polyurethane sheets, rolls and fabricated items should be stored under fusible sprinkler systems with a minimum of six feet clearance between stacks of foam and the sprinkler heads. Do not store foam near any ignition sources such as exposed electrical or gas heating elements, open flames and exposed lights. Do not smoke in foam storage areas. Notify local fire departments of presence of large quantities of foam.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Local exhaust ventilation is recommended for those processing procedures that may generate foam dust and decomposition products. Examples of these processes include sawing, grinding, buffing and flame lamination, hot wire cutting, heat sealing and hot stamping.

RESPIRATORY PROTECTION: None under normal processing if ventilation is adequate. In case of inadequate ventilation, proper respiratory protection should be selected based on the type and concentration of air contaminants. Use NIOSH approved respirator for exposure to dust when processing cured product.



SKIN PROTECTION: No special measures required.

EYE PROTECTION: Safety goggles with side shields recommended for those operations that may generate dust.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL FORM:	Solid (molded parts or sheets)
COLOR:	variable
ODOR:	Slight characteristic
FLASH POINT:	Decomposition products flash at >500°F
MELTING POINT:	572 °F (300 °C)
DENSITY:	0.5 – 40 lbs/cubic foot
SOLUBILITY IN WATER:	Insoluble

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, acetaldehyde, acrylonitrile, TDI, polymer fragments, oxides of nitrogen and hydrogen cyanide. Fire retardant foams may generate emissions of hydrogen chloride, hydrogen bromide, hydrogen fluoride or phosphoric acid.

INCOMPATIBILITIES: High temperature, open flames, strong oxidizers (i.e. hypochlorites)

ADDITIONAL INFORMATION: Hazardous polymerization will not occur.

11. TOXICOLOGICAL INFORMATION

No known harmful effects are expected from the solid polyurethane foams.

12. ECOLOGICAL INFORMATION

Since the product is insoluble in water, no harmful effects are expected.

13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with Federal, State or Local regulations.

14. TRANSPORT INFORMATION

DOT: Not regulated as a dangerous good by transport.

15. REGULATORY INFORMATION

All components of this product are on the TSCA Inventory.

SARA Title III:

To the best of our knowledge this product contains no toxic chemicals subject to the supplier notification requirements of Section 313 of the Superfund Amendments and Reauthorization Act (SARA/EPCRA) and the requirements of 40 CFR Part 372.

California Proposition 65: To the best of our knowledge, this product does not contain any chemical(s) currently on the California list of Known Carcinogens and Reproductive Toxins.

Note: Entries under this section cover only those regulations typically addressed in the MSDS generating process, such as, TSCA, and EPCRA/SARA Title III.

16. OTHER INFORMATION

WHMIS/HAZCOM LABEL: Not Required

Other data

The data in sections 4 to 8, as well as 10 to 12, do not necessarily refer to the proper use of the product (consult the Directions-/Product information), but to the release of larger quantities as a result of accidents and irregularities.

The information describes exclusively the safety requirements for the product (s) and is based on the present level of our knowledge.

The delivery specifications are contained in the corresponding product sheet.

This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal warranty regulations.

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*This MSDS conforms to the American National Standard, ANSI Z400.1-2004
To the best of our knowledge, the information contained in this MSDS is accurate. It is intended to assist the user in his evaluation of the product's hazards, and safety precautions to be taken in its use. The data on this MSDS relate only to the specific material designated herein. We do not assume any liability for the use of, or reliance on this information, nor do we guarantee its accuracy or completeness.*