

Section 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product Identifier

Product Identifier: Polyurethane-Based Synthetic Board (Density Range 30-1200kg/m³)
Product Name: RX-30, RX-80, RX-150, RX-200, RX-300, RX-430, RX-600, RX-700, RX-1200

1.2. Relevant Identified uses of the substance or mixture and uses advised against

Use of substance: Engineering & Prototyping Applications

1.3. Details of supplier of the safety data sheet

Company Name: Ru-bix Tooling Board
Venus Court
Hardwick Industrial Estate
King's Lynn
Norfolk
PE30 4HY
United Kingdom
Telephone: 01485 313 020
Email: ash.colvin@ru-bix.com

1.4. Emergency telephone number

Emergency telephone: 01485 313 020 (office hours only)

Section 2: Hazards identification

2.1. Classification of a substance or mixture

Classification under CLP:

Most important adverse effects: Sawing, sanding or machining tooling board products may produce dust, which can cause an explosion hazard. Tooling board dust may cause irritation to the eye, skin and respiratory tract.

2.2. Potential Health effects

Manual handling: Higher density tooling boards can be heavy.
If possible, when moving boards, consider the use of a lifting aid, such as forklift truck, electric or hand-powered hoist or a conveyor.
Refer to hse.gov.uk/toolbox/manual.htm

Inhalation: Tooling board dust may cause nasal dryness, irritation and obstruction.
Coughing, wheezing and sneezing have also been reported

Eye Contact: Fine dust may cause temporary irritation.
Larger particles can cause mechanical irritation.

Skin Contact: No adverse effects.

Ingestion: Not likely to occur.

Chronic: No reported effects.

SAFETY DATA SHEET

Ru-bix Tooling Board
RX-30 to RX-1200

2.3. Other hazards

PBT: This product does not contain any substances as PBT or vPvB.

Section 3: Composition/information on ingredients

3.1. Composition/information on ingredients

Composition: A cast polyurethane based on polyether polyol and aromatic isocyanates. It is chemically inert with no unreacted compounds.

Section 4: First Aid measures

4.1. Description of First Aid measures

Skin contact: Wash affected areas with soap and water until dust is entirely removed from skin. Get medical attention if rash or irritation persists or dermatitis occurs.

Eye Contact: Fine dust may cause mechanical irritation. Treat dust in eye as foreign object.

Flush eyes with large amounts of water. Remove to fresh air. If irritation persists, get medical attention.

Ingestion: Not Applicable

Inhalation: Fine dust particles may cause unpleasant obstruction in the nasal passages, resulting in dryness of nose, dry cough, sneezing and headaches. Remove to fresh air.

4.2. Most important symptoms and effects, both acute and delayed

Dust - Skin contact: There may be mild irritation at the site of contact.

Dust - Eye Contact: There may be irritation and redness

Ingestion: Not Applicable

Dust - Inhalation: There may be dryness of nose, dry cough, sneezing and headaches

4.3. Indication of any immediate medical attention and special treatment needed

Notes for the doctor: Treat symptomatically

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: Suitable extinguishing media for the surrounding fire should be used. Use water spray on boards.

SAFETY DATA SHEET

Ru-bix Tooling Board RX-30 to RX-1200

5.2. Special hazards arising from the substance or mixture

Exposure hazards: Fire fuelled by tooling board dust or shavings is classified as a Class-A fire. Principal decomposition products include carbon dioxide and carbon monoxide.
Sawing, sanding or machining can produce shavings and dust as a by-product that may present an explosion hazard.

5.3. Advice for fire-fighters

Advice for fire-fighters: Firefighting procedures for extinguishing a Class A fire should be followed. Use recommended Class A firefighting equipment when fighting an incipient fire.
This includes an air-fed respirator.
When extinguishing a fire in a pile of tooling board dust or shavings, care needs to be taken.
A direct stream of water, into the pile from a hose, could cause the burning material to become airborne creating a risk in spreading the fire to other areas.
Water is used to quench the burning material below its ignition temperature. The addition of Class A extinguishing foams (sometimes referred to as wet water) may enhance water's ability to extinguish Class A fires, particularly those that are deep seated in bulk materials (such as piles of shavings, dust etc.).
This is because the Class A foam agent reduces the water's surface tension, allowing it to penetrate more easily into piles of material.
Class A fires are difficult to extinguish using oxygen-exclusion methods like CO2 flooding or coating with foam because these methods do not provide the cooling effect needed for total extinguishment.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Refer to section 8 of SDS for personal protection details.

6.2. Environmental precautions

Environmental precautions: Land spill, generally not applicable to board products

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Chippings/dust can be cleaned up using a conventional vacuum cleaner

6.4. Reference to the other sections

Refer to the other sections: Refer to section 8 of SDS

SAFETY DATA SHEET

Ru-bix Tooling Board RX-30 to RX-1200

Section 7: Handling and storage

7.1. Precaution for safe handling

Handling requirements: Wear gloves when handling polyurethane boards.
Avoid direct contact with an open flame.
Avoid repeated or prolonged breathing of air-borne dust.
Wet down accumulated dust prior to vacuuming or shoveling in order to prevent explosion hazards.
Avoid dusty conditions and provide good ventilation/extraction.
Shaving and dust clean up, and disposal activities, should be accomplished in a manner to minimize creation of airborne dust.
Do not inhale dusts during clean up.
Take care when moving boards and blocks.
Use mechanical handling devices to move heavy boards

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: This product should not be stored where exposure to water could occur or near a source of ignition.
Avoid storing in areas of high relative humidity and high temperature.
It is recommended to store product in an area of relative humidity and temperature that approximates end use.
Do not store near high heat sources.

Section 8: Exposure controls/personal protection

8.1. Control parameters

Workplace exposure limits: Provide adequate general and local exhaust ventilation to keep airborne contaminant concentration levels to meet OSHA requirements for general dust exposure.
Ensure a maximum average concentration of 10mg/m³ of total dust in the atmosphere

8.2. Exposure controls

Engineering measures: Ensure there is sufficient ventilation of the area.
Respiratory protection: Wear an approved respirator when the allowable exposure limits may be exceeded. (Refer to section 3 of this SDS)
Hand protection: Protective gloves
Eye protection: Recommended goggles or safety glasses as conditions indicate when sawing, sanding or machining tooling board products.
Skin protection: Wear side-shield safety glasses or protective goggles during all aspects of fabricating this product.
Other protective equipment such as gloves and outer garments may be needed depending on dust conditions.

SAFETY DATA SHEET

Ru-bix Tooling Board
RX-30 to RX-1200

Section 9: Physical and chemical properties

9.1. Information on basic and chemical properties

State: Solid
Colour: Variable depending on density
Odour: Odourless
Evaporation rate: Not applicable
Oxidising: Not applicable
Viscosity: Not applicable
Kinematic viscosity: Not applicable
Viscosity test method: Not applicable
Flash point °C >400
Relative density various

9.2. Other Information

Other information: No data available

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: Avoid product contact with an open flame and any temperature sources that could induce thermal decomposition.
Avoid product contact with oxidizing agents, drying oils and strong acids.

10.2. Chemical stability

Chemical stability: Stable under normal circumstances.

10.3. Possibility of hazardous reactions

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions

10.4. Conditions to avoid

Conditions to avoid: Fine dust generated from sawing, sanding or machining the product is extremely combustible.
Keep in cool dry place away from ignition sources.

10.5. Incompatible materials

Materials to avoid: Avoid product contact with oxidizing agents, drying oils and strong acids.

SAFETY DATA SHEET

Ru-bix Tooling Board
RX-30 to RX-1200

10.6. Hazardous decomposition products

Hazardous decomposition products: Thermal and/or thermal-oxidative decomposition can produce irritating and toxic fumes and gasses, including carbon monoxide, carbon dioxide and hydrogen cyanide.

Section 11: Toxicological information

11.1. Information on toxicological effects

Hazardous ingredients: Not applicable

Dust: Tooling board dust (generated from sawing, sanding or machining the product) may cause nasal dryness, irritation and coughing.

Additional toxicity data: See acute and chronic health effects provided in section 2.

Target organs: See acute and chronic health effects provided in section 2.

Section 12: Ecological information

12.1. Toxicity

Ecotoxicity values: Not available for product in purchased form.

General product information: Not available for product in purchased form.

Environmental fate: Not available for product in purchased form.

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations: This board product is not recyclable. It is the user's responsibility to determine whether your product meets any applicable criteria for waste disposal.
Disposal must follow applicable national and local regulations.

Section 14: Transport information

14.1. Transport class

Transport class: This product is classified as 'Non-Dangerous' for ADR, IATA and IMDG Regulations.

Section 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Specific regulations: Not applicable

SAFETY DATA SHEET

Ru-bix Tooling Board RX-30 to RX-1200

15.2. Chemical safety assessment

Chemical safety assessment: Tooling board products are non-hazardous under criteria of European regulations.
However, shavings and dust generated by sawing, sanding or machining this product may be hazardous.

Section 16: Other information

16.1. Other information

Other information: None

Legal disclaimer: Recommendations and technical information are provided in good faith, based on current knowledge and experience.
However, due to variations in storage conditions, storage period, substrates and site conditions, no warranty in respect of fitness for purpose can be inferred from this information.
The user must test the product's suitability for the intended application.
Ru-bix Tooling Board is happy to provide free-issue samples for this purpose. All orders are accepted subject to our current terms of sale, a copy of which can be obtained from the Ru-bix office.