



Material Safety Data Sheet

MSDS No.: BJETEP-07042011-1

Tyroc Sub Flooring System

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Section 1: COMPANY AND PRODUCT INFORMATION

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Website:	www.tyrocinc.com
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Product Name:	Tyroc
Trade Name:	Tyroc
Product Description:	A composite panel consisting of 3 primary components: 1. Magnesium Oxide Top Board 2. Rubber/ Polyethylene Bottom Board 3. Pressure Sensitive Adhesive
Use:	Interior: Sub Flooring for direct placement onto concrete floors.

Section 2: COMPOSITION / INFORMATION ON INGREDIENTS

Magnesium Oxide Top Board:

Ingredient (By Wt of Layer)	CAS No.	Hazard Class	Proportion
Magnesium Oxide	1309-48-4	None	>40%
Magnesium Chloride	7786-30-3	None	<20%
Cellulose	9004-34-6	None	<10%
Perlite	93763-70-3	None	<5%
Proprietary Additives	N/A	None	<2%
Fibreglass Scrim	65997-17-3	None	<1%

Rubber / Polyethylene Bottom Board:

Ingredient (By Wt of Layer)	CAS No.	Hazard Class	Proportion
Vulcanized Rubber Compound	N/A	None	60%
Polyethylene	N/A	None	40%

Pressure Sensitive Adhesive:

Ingredient (By Wt)	CAS No.	Hazard Class	Proportion
Hot Melt PSA	N/A	None	100%

Section 3: HAZARDS IDENTIFICATION

Magnesium Oxide Top Board:

Primary Routes of Entry:

Eyes: Dust produced by cutting may irritate the eyes from mechanical abrasion causing watering and redness.

Skin: Dust produced by cutting may cause irritation of the skin from friction but cannot be absorbed through intact skin.

Ingestion: Unlikely under normal conditions of use, but swallowing the dust from this product may result in irritation to the mouth and gastrointestinal tract.

Inhalation: Dust may cause irritation of the nose, throat, and airways, resulting in coughing and sneezing. Certain susceptible individuals may experience wheezing (spasms of the bronchial airways) on inhaling dust during sanding or sawing operations.

Rubber / Polyethylene Bottom Board:

Primary Routes of Entry:

Eyes: Dust produced by cutting may irritate the eyes from mechanical abrasion causing watering and redness.

Skin: Dust produced by cutting may contain fine fibres that may cause itching.

Ingestion: Unlikely under normal conditions of use.

Pressure Sensitive Adhesive:

None

Section 4: FIRST AID MEASURES

Magnesium Oxide Top Board:

EYES: Remove contact lens. Flush with running water or saline for at least 15 minutes. Seek medical attention if redness persists or if visual changes occur.

SKIN: Wash with mild soap and water. Contact physician if irritation persists or later develops.

INGESTION: If ingested, dilute by drinking large amounts of water. Do not induce vomiting. Seek medical attention.

If unconscious, loosen tight clothing and lay the person on his / her side. Give nothing by mouth to an individual who is not alert and conscious. Seek medical attention.

INHALATION: Remove to fresh air. If shortness of breath or wheezing develops, seek medical attention.

NOTES TO PHYSICIAN OR FIRST AID PROVIDERS:

Treat symptomatically.

Rubber / Polyethylene Bottom Board:

EYES: Remove contact lens. Flush with running water or saline for at least 15 minutes. Seek medical attention if redness persists or if visual changes occur.

SKIN: Wash with mild soap and water. Contact physician if irritation persists or later develops.

NOTES TO PHYSICIAN OR FIRST AID PROVIDERS:

Treat symptomatically.

Pressure Sensitive Adhesive:

None

Section 5: FIRE-FIGHTING MEASURES

Magnesium Oxide Top Board:

Fire and Explosion Hazard

Flash Point: Not applicable.

Auto-ignition: Not applicable

Extinguishing Media: This material is non combustible. Appropriate extinguishing media should be used for surrounding fire.

Fire Fighting: Fire fighting personnel should wear normal protective equipment.

Rubber / Polyethylene Bottom Board:

Fire and Explosion Hazard

Flash Point: 649 F

Auto-ignition: 649 F

Extinguishing Media: Water, Foam, Dry Powder, Encapsulating Fire Suppressant.

Fire Fighting: Noxious gases may be formed under fire conditions.

West NIOSH approved self contained apparatus.

Pressure Sensitive Adhesive:

Not applicable

Section 6: ACCIDENTAL RELEASE MEASURES

No special precautions are necessary to pick up product that has been dropped.

The following applies only to spills or releases of dust generated during cutting or sanding.

Precautions: Good housekeeping practices are necessary for cleaning up areas where dust has been produced. Take measures to either eliminate or minimize the creation of dust.

Wherever possible, practices likely to generate dust should be controlled with engineering controls such as local exhaust ventilation, dust suppression with water and containment, enclosure or covers.

Cleanup Methods: A fine water spray may be used to suppress dust when sweeping (dry sweeping is not recommended). Vacuuming with an industrial vacuum cleaner outfitted with a high-efficiency particulate (HEPA) filter is recommended over sweeping.

Waste may be disposed of by landfill in compliance with federal, provincial, state and local requirements governing non-toxic mineral materials

Avoid using materials and products that are incompatible with this product.

Section 7: HANDLING AND STORAGE

Handling and Storage of Products in their intact state do not present a health hazard. The controls below apply to dust generated from the boards by cutting, drilling, routing, sawing, crushing, or otherwise abrading, and cleaning or moving sawdust.

Other Precautions: Even though Tyroc has been tested and deemed non toxic, B-JET Products Inc. recommends that exposure to dust be kept as low as reasonably possible. Exposure to respirable (fine) dust depends on a variety of factors, including activity rate (i.e. cutting rate), method of handling (i.e. electric shears), environmental conditions (i.e. weather conditions, workstation orientation) and control measures used.

Wherever possible, practices likely to generate dust should be carried out in well ventilated areas (i.e. outside). The work practices and engineering controls set out in Section 8 should be followed as precautions to reduce dust exposures.

Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls

Cutting Outdoors:

1. B-JET Products Inc. recommends positioning cutting station so that wind will blow dust away from user or others in working area and allow for ample dust dissipation.
2. Use one of the following methods based on the required cutting rate and jobsite conditions.

Best

- Dust reducing circular saw equipped with appropriate blade and HEPA vacuum extraction.

Good (for low to moderate cutting only)

- Dust reducing circular saw with appropriate saw blade.

Always use correct tools when executing all cutting operations.

Ventilation:

Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limit.

Respiratory Protection: Dust mask is recommended. .

Eye Protection: When cutting material, dust resistant safety goggles / glasses should be worn and used in compliance with ANSI Standard Z87.1-1-1989 and applicable OSHA (i.e. 29 CFR 1910.133) standards.

Skin Protection: Loose comfortable clothing should be worn. B-JET Products Inc. recommends that direct skin contact with dust and debris be avoided when possible by wearing long sleeved shirts and long trousers, a cap or hat, and gloves.

Sanding / Drilling / Other Machining:

If sanding, drilling, or other machining is conducted, B-JET Products Inc. recommends wearing a NIOSH-approved dust mask.

Important Notes:

1. For maximum protection (lowest respirable dust production), B-JET Products Inc. recommends always using "Best" level cutting methods where feasible.
2. Always use a circular saw blade that is appropriate for the specific operation being undertaken.
3. Dry sweeping is not the preferred clean up method - B-JET Products Inc. suggests wet suppression methods or HEPA vacuum.
4. It is not recommended that a grinder or continuous rim diamond blade be used for cutting.
5. Always follow tool manufacturer's safety recommendations.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White Top Board and Black Bottom Board

Odour: Very mild

Physical State: Solid boards

Flash Point: 649 F

Auto-ignition Temperature: 649 F

Section 10: STABILITY AND REACTIVITY

Stability: Stable under ordinary conditions.

Conditions to Avoid: Excessive dust generation without proper dust mask protection.

Materials to Avoid: Incompatibility: Hydrofluoric acid will dissolve Magnesium Oxide and can generate Magnesium Chloride fumes.

Section 11: TOXICOLOGICAL INFORMATION

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Tyroc Panels are non toxic in their intact form. The following applies to dust that may be generated during cutting and sanding.

Chronic Effects:

Inhaled: Repeated and prolonged overexposures to dust may cause increased risk of bronchitis. It is possible that repeated inhalation exposure to Tyroc fiber dust over time may lead to inflammation of the lungs in humans. All necessary precautions should be taken to prevent inhalation of dust to prevent these problems.

Section 12: ECOLOGICAL INFORMATION

Releases that may occur into the environment are not expected to leave any hazardous material that could cause a significant adverse impact.

Section 13: DISPOSAL CONSIDERATIONS

Tyroc components are not deemed hazardous waste.

Dispose of in accordance with federal, state/ province, and local regulations.

Section 14: TRANSPORT INFORMATION

There are no special requirements for storage and transport of Tyroc.

UN No: None allocated

Dangerous Goods Class: None allocated

Hazchem Code: None allocated

Poisons Schedule: None allocated

Packing Group: Not applicable

Label: Not a DOT hazardous material.

Section 15: REGULATORY INFORMATION

DOT Hazard Classification: None
Placard Requirement: Not a DOT hazardous material.
CERCLA Hazardous Substance (40 CFR Part 302)
Listed substance: No
Unlisted Substance: No
Reportable Quantity (RQ): None
Characteristic(s): Not applicable
RCRA Waste Number: Not applicable

Section 16: OTHER INFORMATION

Preparation of Information and Disclaimer:

This form has been prepared to meet current Federal OSHA hazard communication regulations and is offered without any warranty or guarantee of any type. B-JET Products Inc. cannot control the use of its products, and therefore specifically disclaims liability and responsibility arising from the use, misuse and alteration of its products.

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