

Material Safety Data Sheet

JM EPDM Seam Tape Plus

1. Product and company identification

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Trade name: JM EPDM Seam Tape Plus

2. Hazards identification

OSHA/HCS status: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Emergency overview

No known significant effects or critical hazards.

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Potential acute health effects

Inhalation: No known significant effects or critical hazards.

Ingestion: No known significant effects or critical hazards.

Skin: No known significant effects or critical hazards.

Eyes: No known significant effects or critical hazards.

Potential chronic health effects

Chronic effects: No known significant effects or critical hazards.

Carcinogenicity: Contains material which may cause cancer, based on animal data. Risk of cancer depends on duration and level of exposure.

Mutagenicity: No known significant effects or critical hazards.

Teratogenicity: No known significant effects or critical hazards.

Developmental effects: No known significant effects or critical hazards.

Fertility effects: No known significant effects or critical hazards.

Target organs: Contains material which causes damage to the following organs: lungs, cardiovascular system, upper respiratory tract, skin, eyes

Medical conditions aggravated by over-exposure: Pre-existing disorders involving any target organs mentioned in this MSDS as being at risk may be aggravated by over-exposure to this product.

3. Composition information on ingredients

Relevant ingredients

| <u>Name</u> | <u>CAS number</u> | <u>%</u> |
|---|-------------------|----------|
| Carbonic acid calcium salt (1:1) | 471-34-1 | 10 |
| Talc (Mg ₃ H ₂ (SiO ₃) ₄) | 14807-96-6 | 10 |
| Zinc oxide (ZnO ₁) | 1314-13-2 | 5 |
| Calcium Oxide | 1305-78-8 | 10 |
| Carbon black | 1333-86-4 | 10 |

Hazardous ingredients

4. First aid measures

General information:

No action shall be taken involving any personal risk or without suitable training. If used as directed, first aid measures are generally not necessary.

Eye contact: If irritation persists, get medical attention.

Skin contact: In the event of any complaints or symptoms, avoid further exposure.

Inhalation: No known significant effects or critical hazards.

Ingestion: Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Notes to physician: No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. No action shall be taken involving any personal risk or without suitable training.

5. Fire-fighting measures

Flammability of the product: No specific fire or explosion hazard.

Extinguishing media

Suitable: Use an extinguishing agent suitable for the surrounding fire.

Not suitable: None known.

Fire-fighting measures: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Hazardous thermal decomposition products: Decomposition products may include the following materials:, carbon dioxide, carbon monoxide, metal oxide/oxides

Special protective equipment for fire-fighters: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. Accidental release measures

Personal precautions: No action shall be taken involving any personal risk or without suitable training. Put on appropriate personal protective equipment (see Section 8).

Environmental precautions: Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods for cleaning up

Small spill: Dispose of via a licensed waste disposal contractor.

Large spill: Dispose of via a licensed waste disposal contractor. Note: see section 1 for emergency contact information and section 13 for waste disposal.

7. Handling and storage

Handling: Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Do not ingest. If used and stored as directed, no special protective equipment is necessary.

Storage: Store in accordance with local regulations. Do not store in unlabeled containers.

Storage Stability: The product is stable.

8. Exposure controls/personal protection

Exposure limits

Carbonic acid calcium salt (1:1):

OSHA PEL(1993-06-30) PEL: Permissible Exposure Level, 15 mg/m³ Form: Total dust

OSHA PEL(1993-06-30) PEL: Permissible Exposure Level, 5 mg/m³ Form: Respirable fraction

Talc (Mg₃H₂(SiO₃)₄):

OSHA PEL Z3(1997-09-03) Notes: Containing less than 1% quartz; if 1% quartz or more, use quartz limit. Time Weighted Average (TWA) Form: not/asb

OSHA PEL Z3(1997-09-03) Short Term Exposure Limit (STEL) Form: not/asb

ACGIH TLV(1996-05-18) Notes: The agent (mixture, or exposure circumstance) is not classifiable as to its carcinogenicity to humans. Refers to Appendix A -- Carcinogens. 1996 Adoption The value is for total dust containing no asbestos and < 1% crystalline silica. TLV-TWA: Threshold Limit Value - Time weighted average PEL: Permissible Exposure Level, 2 mg/m³ Form:

Respirable fraction: means that size fraction of the airborne particulate deposited in the gas-

exchange region of the respiratory tract and collected during air sampling with a particle size-selective device that, (a) meets the ACGIH particle size-selective sampling criteria for airborne particulate matter; and (b) has the cut point of 4 µm at 50 per cent collection efficiency.
NIOSH REL(1994-06-01) Time Weighted Average (TWA), 2 mg/m³ Form: Respirable fraction
OSHA PEL 1989(1989-03-01) PEL: Permissible Exposure Level, 2 mg/m³ Form: Respirable dust
OSHA PEL Z3(1997-09-03) Time Weighted Average (TWA) Form: cont/asb
OSHA PEL Z3(1997-09-03) Short Term Exposure Limit (STEL) Form: cont/asb

Carbon black:

OSHA PEL 1989(1989-03-01) PEL: Permissible Exposure Level, 3.5 mg/m³
OSHA PEL(1993-06-30) PEL: Permissible Exposure Level, 3.5 mg/m³
NIOSH REL(1994-06-01) Notes: NIOSH potential occupational carcinogen See Appendix A - NIOSH Potential Occupational Carcinogen See Appendix C - Supplemental Exposure Limits
Time Weighted Average (TWA), 3.5 mg/m³
NIOSH REL(1994-06-01) Notes: NIOSH potential occupational carcinogen Carbon black in presence of polycyclic aromatic hydrocarbons (PAHs) See Appendix A - NIOSH Potential Occupational Carcinogen See Appendix C - Supplemental Exposure Limits
Time Weighted Average (TWA)
ACGIH TLV(2010-12-06) Notes: Confirmed animal carcinogen with unknown relevance to humans. TLV-TWA: Threshold Limit Value - Time weighted average PEL: Permissible Exposure Level, 3 mg/m³ Form: Inhalable fraction

Zinc oxide (ZnO):

ACGIH TLV(2003-01-01) Notes: The agent (mixture, or exposure circumstance) is not classifiable as to its carcinogenicity to humans. ACGIH 2003 Adoption TLV-TWA: Threshold Limit Value - Time weighted average PEL: Permissible Exposure Level, 2 mg/m³ Form: Respirable fraction: means that size fraction of the airborne particulate deposited in the gas-exchange region of the respiratory tract and collected during air sampling with a particle size-selective device that, (a) meets the ACGIH particle size-selective sampling criteria for airborne particulate matter; and (b) has the cut point of 4 µm at 50 per cent collection efficiency.
ACGIH TLV(2003-01-01) Notes: The agent (mixture, or exposure circumstance) is not classifiable as to its carcinogenicity to humans. ACGIH 2003 Adoption TLV-STEL: Threshold Limit Value - Short Time Exposure Level, 10 mg/m³ Form: Respirable fraction: means that size fraction of the airborne particulate deposited in the gas-exchange region of the respiratory tract and collected during air sampling with a particle size-selective device that, (a) meets the ACGIH particle size-selective sampling criteria for airborne particulate matter; and (b) has the cut point of 4 µm at 50 per cent collection efficiency.
NIOSH REL(1994-06-01) Time Weighted Average (TWA), 5 mg/m³ Form: dust and fume
NIOSH REL(1994-06-01) Short Term Exposure Limit (STEL), 10 mg/m³ Form: Fume
NIOSH REL(1994-06-01) Threshold Limit Value - Ceiling (TLV-C), 15 mg/m³ Form: Dust
OSHA PEL 1989(1989-03-01) PEL: Permissible Exposure Level, 5 mg/m³ Form: Fume
OSHA PEL 1989(1989-03-01) Short Term Exposure Limit (STEL), 10 mg/m³ Form: Fume
OSHA PEL 1989(1989-03-01) PEL: Permissible Exposure Level, 10 mg/m³ Form: Total dust
OSHA PEL 1989(1989-03-01) PEL: Permissible Exposure Level, 5 mg/m³ Form: Respirable fraction
OSHA PEL(1993-06-30) PEL: Permissible Exposure Level, 5 mg/m³ Form: Fume
OSHA PEL(1993-06-30) PEL: Permissible Exposure Level, 15 mg/m³ Form: Total dust
OSHA PEL(1993-06-30) PEL: Permissible Exposure Level, 5 mg/m³ Form: Respirable fraction

Engineering measures: If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Hygiene measures: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protection

Respiratory: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Hands: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Eyes: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.

Skin: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

9. Physical and chemical properties

Physical state: solid

10. Stability and reactivity

Conditions to avoid: No specific data.

Substances to avoid: No specific data.

Hazardous decomposition products: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. Toxicological information

Assessment carcinogenicity: Contains material which may cause cancer, based on animal data., Risk of cancer depends on duration and level of exposure.

Assessment mutagenicity: No known significant effects or critical hazards.

Assessment teratogenicity: No known significant effects or critical hazards.

Assessment toxicity to reproduction: No known significant effects or critical hazards.

Assessment Development Effect: No known significant effects or critical hazards.

12. Ecological information

Environmental fate: No known significant effects or critical hazards.

13. Disposal considerations

Waste disposal: The generation of waste should be avoided or minimized wherever possible. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Waste packaging should be recycled.

Disposal should be in accordance with applicable regional, national and local laws and regulations. Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

14. Transport information

These products are not classified as dangerous goods according to international transport regulations.

IATA & IMDG: Contact JM Product Stewardship for classification and label.

15. Regulatory information

U.S. Federal regulations

United States - EPA Clean water act (CWA) section 307 - Priority pollutants: Listed Zinc oxide (ZnO1)

United States - EPA Clean water act (CWA) section 311 - Hazardous substances: Not listed

United States - EPA Clean air act (CAA) section 112 - Accidental release prevention - Flammable substances: Not listed

United States - EPA Clean air act (CAA) section 112 - Accidental release prevention - Toxic substances: Not listed

SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Carbonic acid calcium salt (1:1): Acu Talc (Mg3H2(SiO3)4): Acu, Del Zinc oxide (ZnO1): Acu, Del Carbon black: Acu, Del



SARA 311/312 Product Classification: Immediate (acute) health hazard. Delayed (chronic) health hazard.

State regulations

Massachusetts Substances: The following components are listed: Talc ($Mg_3H_2(SiO_3)_4$) Carbon black Zinc oxide (ZnO)

New Jersey Hazardous Substances: The following components are listed: Talc ($Mg_3H_2(SiO_3)_4$) Carbon black Zinc oxide (ZnO)

Pennsylvania RTK Hazardous Substances: The following components are listed: Talc ($Mg_3H_2(SiO_3)_4$) Carbon black Zinc oxide (ZnO)

California Prop. 65

WARNING: This product contains a chemical known to the State of California to cause cancer.

| <u>Ingredient name</u> | <u>Cancer</u> | <u>Reproductive</u> | <u>No significant risk level</u> | <u>Maximum acceptable dosage level</u> |
|------------------------|---------------|---------------------|----------------------------------|--|
| Carbon black | Yes. | No. | No. | No. |

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

DSL: All components are listed or exempted.

International regulations

Korea inventory: Not determined.

Japan. ENCS - Existing and New Chemical Substances Inventory: Not determined.

China. IECSC - Inventory of Existing Chemical Substances in China: Not determined.

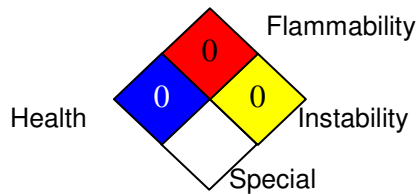
Australia. AICS - Australian Inventory of Chemical Substances: Not determined.

Philippines. PICCS - Philippines Inventory of Chemicals and Chemical Substances: Not determined.

New Zealand Inventory of Chemicals (NZIoC): Not determined.

16. Other information

National Fire Protection Association (U.S.A.):



Date of issue : 05/04/2012
Date of previous issue : 00/00/0000
Version : 1.0

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