

1. Product and Company Identification

Material name Tri-Built Millennium EPDM Edge Sealant
Version # 01
Issue date 03-07-2013
Revision date -
Supersedes date -
CAS # Mixture
Product use Adhesive.

Manufacturer information

Manufacturer/Supplier: ADCO Products
 4401 Page Ave, P.O. Box 457
 Michigan Center, MI 49254
 US
General Information: 517-764-0334

Emergency:

3E Global Incident Response Hotline: Access code 333845
America 1-866-519-4752
Europe 4-760-476-3961
Asia 1-760-476-3960
Middle East/Africa 1-760-476-3959
Australia +61 1 800 686 951
China +86 4001 2001 74

2. Hazards Identification

Physical state Solid.
Appearance Black elastomeric solid.
Emergency overview WARNING

Flammable solid.
 Causes skin and eye irritation. In high concentrations, vapors may be irritating to the respiratory system.

OSHA regulatory status This product is hazardous according to OSHA 29 CFR 1910.1200.

Potential health effects

Eyes Causes eye irritation.
Skin Causes skin irritation.
Inhalation In high concentrations, vapors may be irritating to the respiratory system.
Ingestion No harmful effects expected in amounts likely to be ingested by accident.

Target organs Eyes. Skin. Lung.

Chronic effects May cause adverse reproductive effects - such as birth defects, miscarriages, or infertility based on animal data.

Potential environmental effects Not expected to be harmful to aquatic organisms.

3. Composition / Information on Ingredients

Components	CAS #	Percent
Limestone	1317-65-3	30-60
Solvent naphta (petroleum). light aliph.	64742-89-8	10-30
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	<5
Bentonite	1302-78-9	<1.5

Components	CAS #	Percent
Carbon black	1333-86-4	<1.5
Calcium oxide	1305-78-8	<1

Composition comments Any pigments or fillers in this product which may be considered "Hazardous" are potentially hazardous only if inhaled as an air-borne dust. Exposure by these ingredients as used in sealants, putties, bedding compounds and other non-sprayable products is highly unlikely. All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First Aid Measures

First aid procedures

Eye contact Any material that contacts the eye should be washed out immediately with water. If easy to do, remove contact lenses. Get medical attention promptly if symptoms occur after washing.

Skin contact Wash off with soap and plenty of water. Get medical attention promptly if symptoms occur after washing.

Inhalation If symptomatic, move to fresh air. Get medical attention if symptoms persist.

Ingestion Seek medical advice.

5. Fire Fighting Measures

Flammable properties Flammable solid.

Extinguishing media

Suitable extinguishing media Water. Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Fire fighting equipment/instructions Self-contained breathing apparatus operated in positive pressure mode and full protective clothing must be worn in case of fire.

Specific methods Use water spray to cool unopened containers. Move container from fire area if it can be done without risk.

Hazardous combustion products Carbon oxides. Nitrogen oxides. Calcium oxides.

6. Accidental Release Measures

Personal precautions Wear appropriate personal protective equipment (See Section 8).

Methods for cleaning up Eliminate all ignition sources. Absorb spill with vermiculite or other inert material, then place in a container for chemical waste.

Large Spills: Flush area with water. Prevent runoff from entering drains, sewers, or streams. Dike for later disposal.

7. Handling and Storage

Handling Keep away from heat, sparks and open flame. Wear appropriate personal protective equipment (See Section 8).

Storage Keep away from heat, sparks, and flame. Keep container tightly closed in a cool, well-ventilated place.

8. Exposure Controls / Personal Protection

Occupational exposure limits

US. ACGIH Threshold Limit Values

Components	Type	Value	Form
Carbon black (CAS 1333-86-4)	TWA	3 mg/m3	Inhalable fraction.
Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)	TWA	5 mg/m3	Inhalable fraction.

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value	Form
Carbon black (CAS 1333-86-4)	PEL	3.5 mg/m ³	
Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)	PEL	5 mg/m ³	Mist.
		2000 mg/m ³	
		500 ppm	
Limestone (CAS 1317-65-3)	PEL	5 mg/m ³	Respirable fraction.
		15 mg/m ³	Total dust.

Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)

Components	Type	Value	Form
Carbon black (CAS 1333-86-4)	TWA	3.5 mg/m ³	
Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)	STEL	10 mg/m ³	Mist.
	TWA	5 mg/m ³	Mist.
Limestone (CAS 1317-65-3)	TWA	10 mg/m ³	

Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)

Components	Type	Value	Form
Carbon black (CAS 1333-86-4)	TWA	3 mg/m ³	Inhalable
Limestone (CAS 1317-65-3)	STEL	20 mg/m ³	Total dust.
	TWA	3 mg/m ³	Respirable fraction.
		10 mg/m ³	Total dust.

Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents)

Components	Type	Value
Carbon black (CAS 1333-86-4)	TWA	3.5 mg/m ³

Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment)

Components	Type	Value	Form
Carbon black (CAS 1333-86-4)	TWA	3.5 mg/m ³	
Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)	STEL	10 mg/m ³	Mist.
	TWA	5 mg/m ³	Mist.
Limestone (CAS 1317-65-3)	TWA	10 mg/m ³	Total dust.

Mexico. Occupational Exposure Limit Values

Components	Type	Value	Form
Carbon black (CAS 1333-86-4)	STEL	7 mg/m ³	
	TWA	3.5 mg/m ³	
Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)	STEL	10 mg/m ³	Mist.
	TWA	5 mg/m ³	Mist.
Limestone (CAS 1317-65-3)	STEL	20 mg/m ³	
	TWA	10 mg/m ³	

Engineering controls

Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Eye / face protection	Wear safety glasses with side shields (or goggles). Wear a full-face respirator, if needed.
Skin protection	Wear chemical-resistant gloves, footwear and protective clothing appropriate for risk of exposure. Contact glove manufacturer for specific information.
Respiratory protection	If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. In the United States of America, if respirators are used, a program should be instituted to assure compliance with OSHA 29 CFR 1910.134. Respirator type: Air-purifying respirator with an appropriate, government approved (where applicable), air-purifying filter, cartridge or canister.
General hygiene considerations	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical & Chemical Properties

Appearance	Black elastomeric solid.
Physical state	Solid.
Form	Solid.
Color	Black.
Odor	Petroleum naphtha odor.
Odor threshold	Not available.
pH	Not available.
Vapor pressure	45.0 mm Hg at 20°C
Vapor density	3.8
Boiling point	240 °F (115.6 °C)
Melting point/Freezing point	Not available.
Solubility (water)	< 0.5 %
Specific gravity	1.35
Flash point	50 °F (10 °C)
Flammability limits in air, upper, % by volume	6.7
Flammability limits in air, lower, % by volume	0.9
Auto-ignition temperature	Not available.
VOC	< 250 g/l
Evaporation rate	9.2 (n-butyl acetate = 1)
Percent volatile	< 20
Partition coefficient (n-octanol/water)	No data available.

10. Chemical Stability & Reactivity Information

Chemical stability	Material is stable under normal conditions.
Conditions to avoid	Keep away from heat, sparks, and flame.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	No hazardous decomposition products are known.
Possibility of hazardous reactions	Will not occur.

11. Toxicological Information

Sensitization	No sensitizing effects known.
Acute effects	Causes skin and eye irritation. In high concentrations, vapors may be irritating to the respiratory system.
Carcinogenicity	Due to the form of the product, exposure to the potentially carcinogenic components is not expected.

ACGIH Carcinogens

Carbon black (CAS 1333-86-4)

A3 Confirmed animal carcinogen with unknown relevance to humans.

Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)

A4 Not classifiable as a human carcinogen.

IARC Monographs. Overall Evaluation of Carcinogenicity

Carbon black (CAS 1333-86-4)

2B Possibly carcinogenic to humans.

Reproductive effects

May cause adverse reproductive effects - such as birth defects, miscarriages, or infertility based on animal data.

12. Ecological Information

Ecotoxicity

Not expected to be harmful to aquatic organisms.

Persistence and degradability

No data available.

Bioaccumulation / Accumulation

No data available.

Partition coefficient

No data available.

Mobility in environmental media

No data available.

13. Disposal Considerations

Waste codes

D001: Waste Flammable material with a flash point <140 °F

Disposal instructions

Dispose of contents/container in accordance with local/regional/national/international regulations. When this product as supplied is to be discarded as waste, it may meet the definition of a RCRA waste under 40 CFR 261.

Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport Information

DOT

Basic shipping requirements:

UN number UN1133

Proper shipping name Adhesives

Hazard class 3

Packing group II

Additional information:

Special provisions 149, B52, IB2, T4, TP1, TP8

Packaging exceptions 150

Packaging non bulk 173

Packaging bulk 242

IATA

UN number UN1133

UN proper shipping name Adhesives

Transport hazard class(es) 3

Packing group II

ERG code 3L

IMDG

UN number UN1133

UN proper shipping name ADHESIVES

Transport hazard class(es) 3

Packing group II

EmS F-E, S-D

TDG

UN number UN1133

Proper shipping name ADHESIVES

Hazard class 3

Packing group II

15. Regulatory Information

US federal regulations This product is hazardous according to OSHA 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

CERCLA (Superfund) reportable quantity (lbs) (40 CFR 302.4)

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories
Immediate Hazard - Yes
Delayed Hazard - Yes
Fire Hazard - Yes
Pressure Hazard - No
Reactivity Hazard - No

Section 302 extremely hazardous substance (40 CFR 355, Appendix A) No

Section 311/312 (40 CFR 370) Yes

Drug Enforcement Administration (DEA) (21 CFR 1308.11-15) Not controlled

Canadian regulations This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

WHMIS status Controlled

WHMIS classification
B4 - Flammable Solids
D2A - Other Toxic Effects-VERY TOXIC
D2B - Other Toxic Effects-TOXIC

WHMIS labeling



Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s)

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

US - California Hazardous Substances (Director's): Listed substance

Carbon black (CAS 1333-86-4) Listed.
Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5) Listed.

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Carbon black (CAS 1333-86-4) Listed.
Quartz (CAS 14808-60-7) Listed.

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

Carbon black (CAS 1333-86-4) Listed: February 21, 2003 Carcinogenic.
Quartz (CAS 14808-60-7) Listed: October 1, 1988 Carcinogenic.

US - New Jersey RTK - Substances: Listed substance

Carbon black (CAS 1333-86-4) Listed.
Limestone (CAS 1317-65-3) Listed.

US. Massachusetts RTK - Substance List

Carbon black (CAS 1333-86-4) Listed.
Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5) Listed.

Limestone (CAS 1317-65-3)

Listed.

Vinyl acetate (CAS 108-05-4)

Listed.

US. New Jersey Worker and Community Right-to-Know Act

Not regulated.

US. Pennsylvania RTK - Hazardous Substances

Carbon black (CAS 1333-86-4)

Listed.

Limestone (CAS 1317-65-3)

Listed.

16. Other Information

Further information

HMIS® is a registered trade and service mark of the NPCA.

HMIS® ratings

Health: 2*
Flammability: 3
Physical hazard: 0

NFPA ratings

Health: 2
Flammability: 3
Instability: 0

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