

MATERIAL SAFETY DATA SHEET

CLASSICBOND: WATER CUT OFF MASTIC

Material Safety Data Sheet

WATER CUT-OFF MASTIC

MSDS No. 302196

Date of Preparation: 05/20/05

Revision: 018

Section 1 - Chemical Product and Company Identification

Product/Chemical Name: WATER CUT-OFF MASTIC

Chemical Formula: Mixture

General Use: Elastomeric Sealer

Manufacturer: Flex-R Ltd., Unit 5 Central Park, Bellfield Road, High Wycombe, Bucks. HP13 5HG
Tel:+44 (0) 1494 448792 Fax: +44 (0) 1494 465393

Section 2 - Composition / Information on Ingredients

Ingredient Name	CAS Number	% wt or % vol
Aliphatic Petroleum Distillate	64742-89-8	10-20
Amorphous Silica	7631-86-9	2-4
Isobutylene-Isoprene Copolymer	9010-85-9	
Polybutene Homopolymer	9003-29-6	
Hydrous Clay	12174-11-7	
Paraffinic Oil	64742-01-4	
Calcium Carbonate	1317-65-3	

Hazardous Ingredients:

Ingredient	OSHA PEL		ACGIH TLV		NIOSH REL		NIOSH IDLH
	TWA	STEL	TWA	STEL	TWA	STEL	
Aliphatic Petroleum Distillate	300 ppm	none estab.	none estab.	none estab.	none estab.	none estab.	none estab.
Amorphous Silica	6.0mg/m ³ (total dust)	none estab.	none estab.	none estab.	none estab.	none estab.	none estab.

Section 3 - Hazards Identification

☆☆☆☆☆ Emergency Overview ☆☆☆☆☆

HMIS

H 1

F 4

R 0

PPE†

†Sec. 8

Potential Health Effects

Primary Entry Routes: Skin contact, skin absorption, eye contact, inhalation, ingestion.

Target Organs:

Acute Effects

Inhalation: nose and throat irritation on short-term exposure to liquid or vapor.

Eye: irritation on short-term exposure to liquid or vapor

Skin: irritation on short-term exposure to liquid or vapor

Ingestion: irritation of gastrointestinal tract

Carcinogenicity: IARC, NTP, and OSHA do not list this product as a carcinogen.

Medical Conditions Aggravated by Long-Term Exposure: Pre-existing eye, skin, and pulmonary disorders may be aggravated by exposure to this product. Respiratory symptoms associated with pre-existing lung disorders and pre-existing heart disorders may be aggravated by exposure to this material.

Chronic Effects: Overexposure may result in headache, dizziness, fatigue, nausea, convulsions, and loss of consciousness.

Anorexia and nervousness may persist for several months following acute overexposure. Moderate irritation of skin, eyes, and mucous membranes of upper respiratory tract on prolonged, repeated contact. Dermatitis and defatting of the skin. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage.

Section 4 - First Aid Measures

Inhalation: Remove victim to fresh air and provide oxygen if breathing is difficult. Give artificial respiration if not breathing.

Get medical attention immediately.

Eye Contact: Immediately flush eyes with running water for at least 15 minutes. Get medical attention.

Skin Contact: Immediately flush skin with running water and remove contaminated clothing. Wash exposed area with soap and water. Get medical attention.

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Ingestion: Do not induce vomiting. Get medical attention immediately.

Special Precautions/Procedures: Whenever possible, remove the worker from the source of contamination.

Section 5 - Fire-Fighting Measures

Flash Point: 40 °F (4 °C)

Flash Point Method: TCC

Autoignition Temperature: 480.4 °F (249 °C)

LEL: 0.9% v/v

UEL: 7% v/v



Flammability Classification: Division 2. Ignition can occur when this product is exposed to heat, sparks, or flame.

Extinguishing Media: In case of fire, use dry chemical, carbon dioxide, or foam. Water may not be effective as an extinguishing agent. Water fog or spray may be used to provide a smothering effect on fire and to cool fire-exposed container and surrounding combustibles. Do not use a solid stream of water because it can scatter and spread the fire.

Unusual Fire or Explosion Hazards: Flammable. Store and use away from all sources of heat, flame, or sparks. DO NOT smoke while applying. Vapors are heavier than air and may travel along ground or may be moved by ventilation and ignited by pilot lights, other flames, sparks, heaters, smoking, electrical motors, static discharge, or other ignition sources at location distant from material handling point and flash back. All containers should be grounded when material is transferred.

Hazardous Combustion Products: Toxic gases or vapors, such as carbon monoxide, carbon dioxide, or aldehydes may be released in a fire.

Fire-Fighting Instructions: This product contains solvents that are dangerous fire and explosion hazards when exposed to heat or flame. Fire fighters should wear self-contained breathing apparatus and full protective clothing with full-face pieces operated in the positive pressure demand mode.

Fire-Fighting Equipment: Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full face piece operated in pressure-demand or positive-pressure mode.

Section 6 - Accidental Release Measures

Spill /Leak Procedures: Remove all sources of ignition. Avoid breathing vapors. Use self-contained breathing apparatus in enclosed area. Ventilate area. Contain and remove with inert absorbent materials and non-sparking tools.

Large Spills

Containment: For large spills, dike far ahead of liquid spill for later disposal. Do not release into sewers or waterways.

Cleanup: Clean-up spill as soon as possible. Collect any excess material with absorbent pads, sand, or other inert non-combustible absorbent materials. Place into appropriate waste containers for later disposal. Comply with all laws and regulations.

Regulatory Requirements: Follow applicable OSHA regulations (29 CFR 1910.120).

Section 7 - Handling and Storage

Handling Precautions: Use away from all sources of heat, flame, or sparks. Do not smoke while using. Handling equipment must be grounded to prevent sparking. Handle with non-sparking tools. Wash with soap and water before eating or drinking. Launder contaminated clothing. KEEP OUT OF REACH OF CHILDREN.

Storage Requirements: Keep containers cool, dry, and store away from all sources of heat, flame, and sparks. Keep containers tightly closed and store with adequate ventilation. Do not pressurize, cut, weld, or grind the containers or empty containers which may contain residual product and solvent vapors that may ignite explosively.

Section 8 - Exposure Controls / Personal Protection

Engineering Controls: Do not use in enclosed areas without proper explosion-proof ventilation. General and local exhaust ventilation must be sufficient to control vapor concentrations and keep the vapor concentration below 300 ppm.

Ventilation: Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs (Sec. 2). Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source.

Respiratory Protection: A NIOSH approved respirator must be used if vapor concentration is 300 ppm or above.

Protective Clothing/Equipment: Hycron or equivalent solvent permeation resistant gloves recommended. Glasses or goggles recommended. Wear industrial boots to protect feet from contact with sealant. Impervious clothing is recommended to protect skin from contact with sealant. Protective skin creams or emollients useful.

Safety Stations: Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.

Contaminated Equipment: Separate contaminated work clothes from street clothes. Launder before reuse. Remove this material from your shoes and clean personal protective equipment.

Comments: Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

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Section 9 - Physical and Chemical Properties

Physical State: Liquid	Water Solubility: 0.5
Appearance and Odor: Gray viscous liquid with mild solvent odor	Other Solubilities:
Odor Threshold(ppm): Not available	Boiling Point(°C): 115-140
Vapor Pressure: 45 mm Hg at 25 °C	Freezing/Melting Point(°C): -18
Vapor Density (Air=1): 3.9	% Volatile: 10-20
Density: 9.98 – 10.82 lbs./gal. (calculated)	Evaporation Rate: 2.0
Specific Gravity (H₂O=1, at 4 °C): 1.20-1.30	VOC: 250 gms. / l.
pH: N/A	

Section 10 - Stability and Reactivity

Stability: Stable.
Polymerization: Will not occur.
Chemical Incompatibilities: Strong oxidizing agents, acids, bases.
Conditions to Avoid: Heat, sparks, and flames; ignition sources.
Hazardous Decomposition Products: Toxic gases or vapors such as carbon monoxide, carbon dioxide, or aldehydes may be released in a fire.

Section 11- Toxicological Information

Toxicity Data:*

Acute Inhalation Effects: Product toxicity has not been determined.
Acute Oral Effects: Product toxicity has not been determined.
The following is component data:
Aliphatic Petroleum Distillates - Rat, oral, LD₅₀: >5000mg/kg
Amorphous Silica - Rat, oral, LD₅₀: 3160mg/kg
Carcinogenicity: Not listed in IARC or NTP.
Mutagenicity: No evidence
Teratogenicity: No evidence

Section 12 - Ecological Information

This product has not been tested. No data available.

Section 13 - Disposal Considerations

Disposal: Dispose of in accordance with all local, state, and federal regulations.

Section 14 - Transport Information

DOT Transportation Data (49 CFR 172.101):

Shipping Name: Adhesives	Packaging Authorizations	Quantity Limitations
Shipping Symbols: Flammable	a) Exceptions: 173.150	a) Passenger, Aircraft, or Railcar: 5 L
Hazard Class: 3	b) Non-bulk Packaging: 173.173	b) Cargo Aircraft Only: 60 L
ID No.: UN1133	c) Bulk Packaging: 173.242	
Packing Group: II		Vessel Stowage Requirements
Label: flammable liquid label required for 5 gallon pails only		a) Vessel Stowage: B
Special Provisions (172.102): 149,B52,IB2		b) Other: N/A

Section 15 - Regulatory Information

EPA Regulations:
RCRA Hazardous Waste Number: Not listed (40 CFR 261.33)
RCRA Hazardous Waste Classification (40 CFR 261.31): Not classified
CERCLA Hazardous Substance (40 CFR 302.4) listed/unlisted specific per RCRA, Sec. 3001; CWA, Sec. 311 (b)(4); CWA, Sec. 307(a), CAA, Sec. 112: Not listed
SARA 311/312 Codes:
SARA Toxic Chemical (40 CFR 372.65): Not listed
SARA EHS (Extremely Hazardous Substance) (40 CFR 355): Not listed

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OSHA Regulations:

Air Contaminant (29 CFR 1910.1000, Table Z-1, Z-1-A): Not listed

State Regulations:

Florida Toxic Substance: Listed as a toxic substance (Amorphous silica) by the state of Florida.

Massachusetts Hazardous Substance Codes: Amorphous Silica 7631-86-9 2,4,5,F5
Calcium Carbonate 1317-65-3 4

Minnesota Hazardous Substance: Amorphous Silica Codes: ANOR Carcinogen: Yes
Calcium Carbonate Codes: A Carcinogen: No

Pennsylvania Hazardous Substance Code: Amorphous Silica 7631-86-9 Code: None
Calcium Carbonate 1317-65-3 Code: None

Canadian WHMIS Classification: Class: B
Division 2

Section 16 - Other Information

Prepared By: Research & Development

Revision Notes: Converted to 16 Part Format

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