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SAFETY DATA SHEET

1. IDENTIFICATION AND EMERGENCY INFORMATION

PRODUCT NAME: RAM CAULK

MANUFACTURER: BARRETT COMPANY
33 STONE HOUSE ROAD
MILLINGTON, NJ 07946-0421

CHEMTREC EMERGENCY TELEPHONE NUMBER: 800-424-9300
INFORMATION PHONE: 800-647-0100
DATE PREPARED: August 11, 2018

Recommended Use: A component part of commercial roofing and waterproofing systems as a sealant

Restrictions on Use: Should only be used by a Barrett Approved Contractor

2. HAZARD IDENTIFICATION

Physical hazards: Not classified.
Health hazards: Reproductive toxicity Category 2
Environmental hazards: Hazardous to the aquatic environment, acute hazard Category 2
OSHA defined hazards: Not classified.

Label elements:



Signal word: Warning
Hazard statement: Suspected of damaging fertility or the unborn child. Harmful to aquatic life with long lasting effects.
Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection. Avoid release to the environment.
Response: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. If exposed or if you feel unwell: Get medical advice/attention.
Storage: Store locked up.
Disposal: Dispose of contents/container in accordance with local/regional/national/international regulations. See section 13 of this SOS for disposal instructions.
Hazard(s) not otherwise classified (HNOC): None known.
Supplemental information: None.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Mixtures

Chemical Name	Common name and synonyms	CAS number	%
Polydimethylsiloxane		9016-00-6	15 - 40
Silica		112945-52-5	0 - 5
Toluene		108-8 8-3	0 - 2
Other components below reportable levels			40 - 70

Composition comments: The full text for all R-phrases is displayed in Section 16 of the SOS.

4: FIRST AID MEASURES

Inhalation:	If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Call a physician if symptoms develop or persist.
Skin contact:	IF ON SKIN: Gently wash with plenty of soap and water. If irritation persists get medical attention.
Eye contact:	Immediately rinse with water for several minutes. If a contact lens is present, DO NOT delay irrigation or attempt to remove the lens. Continue rinsing. Get medical attention if irritation develops and persists.
Ingestion:	Rinse mouth. Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a physician or poison control center immediately.
Most important symptoms/ effects, acute and delayed	Not available.
Indication of immediate medical attention and special treatment needed:	In case of shortness of breath, give oxygen. Keep victim warm. Symptoms may be delayed.
General information:	If you feel unwell, seek medical advice (show the label where possible). Keep victim warm. Keep victim under observation. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before re-use.

5: FIRE-FIGHTING MEASURES

Suitable extinguishing media:	Water. Water fog. Foam. Dry chemical powder. Carbon dioxide (CO ₂).
Unsuitable extinguishing media:	Do not use a solid water stream as it may scatter and spread fire.
Specific hazards arising from the chemical:	Irritating, corrosive and/or toxic gases or fumes will be released during a fire.
Special protective equipment and precautions for firefighters:	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.
Fire-fighting equipment/instructions:	In case of fire and/or explosion do not breathe fumes. Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Move containers from fire area if you can do so without risk. In the event of fire, cool tanks with water spray. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.
Specific methods:	In the event of fire and/or explosion do not breathe fumes. Use water spray to cool unopened containers.

6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:	Ventilate closed spaces before entering them. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
Methods and materials for containment and cleaning up:	Stop the flow of material, if this is without risk. Eliminate sources of ignition. Dike far ahead of spill for later disposal. Following product recovery, flush area with water.
Environmental precautions:	Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid release to the environment.

Precautions for safe handling: Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with skin, eyes and clothing. Do not ingest. Wash hands after handling and before eating. When using, do not eat, drink or smoke. Avoid contact during pregnancy/while nursing. Avoid release to the environment.

Conditions for safe storage, including any incompatibilities: Store in a cool and well-ventilated place. Keep away from heat and sources of ignition. Keep out of the reach of children. Keep container tightly closed.

Occupational Exposure Limits:**US. OSHA Table Z-2 (29 CFR 1910.1000)**

Components	Type	Value
TOLUENE (CAS 108-88-3)	Ceiling	300 ppm
	TWA	200 ppm

US. OSHA Table Z-3 (29 CFR 1910.1000)

Components	Type	Value
Silica (CAS 112945-52-5)	TWA	0.8 mg/m ³
		20 mppcf

US. ACGIH Threshold Limit Values

Components	Type	Value
TOLUENE (CAS 108-88-3)	TWA	20 ppm

US. NIOSH: Pocket guide to Chemical Hazards

Components	Type	Value
Silica (CAS 112945-52-5)	TWA	6 mg/m ³
Toluene (CAS 108-88-3)	STEL	560 mg/m ³
		150 ppm
	TWA	375 mg/m ³
		100 ppm

Biological Limit Values:**ACGIH Biological Exposure Indices**

Components	Value	Determinant	Spectrum	Sampling Time
Toluene (CAS 108-88-3)	0.3 mg/g	o-Cresol, with hydrolysis	Creatinine in urine	*
	0.03 mg/l	Toluene	Urine	*
	0.02 mg/l	Toluene	Blood	*

* For sampling details, please see the source document.

Exposure guidelines**US - California OELs: Skin designation**

Toluene (CAS 108-88-3) Can be absorbed through the skin.

US - Minnesota Haz Subs: Skin designation applies

Toluene (CAS 108-88-3) Skin designation applies.

Appropriate engineering controls: Provide adequate ventilation if fumes or vapors are generated.

Individual protection measures, such as personal protective equipment

Eye/face protection: Goggles/face shield are recommended.

Hand protection: Chemical resistant gloves are recommended. If contact with forearms is likely wear gauntlet style gloves.

Other: Wear appropriate chemical resistant clothing.

Respiratory protection: In the case of respirable dust and/or fumes, use self-contained breathing apparatus. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Thermal hazards: Not available.

General hygiene considerations: When using, do not eat, drink or smoke. Use good industrial hygiene practices in handling this material. Wash hands before breaks and immediately after handling the product.

9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Paste.
Physical state	Liquid
Form	Paste
Color	Grey
Odor	Slight
Odor threshold	Not available.
pH	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	< 150°F (< 65.56°C)
Flash point	> 392° F (> 200°C)
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower Flammability or explosive limits	
Flammability limit – lower (%)	Not available.
Flammability limit – upper (%)	Not available.
Explosive limit – lower (%)	Not available.
Explosive limit – upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto ignition temperature	< 700°F (>371.11°C)
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Percent volatile	< 5 %
Specific gravity	1 - 1.5

10: STABILITY AND REACTIVITY

Reactivity:	Not available.
Chemical stability:	Material is stable under normal conditions. Stable under normal temperature conditions.
Possibility of hazardous reactions:	Hazardous polymerization does not occur.
Conditions to avoid:	Heat, flames and sparks. Avoid high temperatures. Temperatures above 100 °C
Incompatible materials:	Strong acids, alkalies and oxidizing agents.
Hazardous decomposition products:	Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons. Toxic gas.

11: TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation:	Health injuries are not known or expected under normal use.
Skin contact:	Causes mild skin irritation.
Eye contact:	May be irritating to eyes.
Ingestion:	May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of occupational exposure.
Symptoms related to the physical, chemical and toxicological effects:	Not available.

Information on toxicological effects

Acute Toxicity	Not classified.	
<u>Product Components</u>	<u>Species</u>	<u>Test Results</u>
Silica (CAS 112945-52-5)		
<u>Acute</u>		
Oral		
LD50	Rabbit	> 22500 mg/kg

Toluene (CAS 106-88-3)

Acute

Dermal

LD50 Rabbit 14.1 ml/kg

Inhalation

LC50 Rat 8000 ppm, 4 Hours

Oral

LD50 Rat 2.6g/kg

* Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation: Causes mild skin irritation. Not classified.

Serious eye damage/ eye irritation: Not available.

Respiratory or skin sensitization

Respiratory sensitization: Not available.

Skin sensitization: Not available.

Germ cell mutagenicity: No data available to indicate product or any components present at greater than 0.1 % mutagenic or genotoxic.

Carcinogenicity: This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

IARC Monographs. Overall Evaluation of Carcinogenicity

Silica (CAS 112945-52-5) 3 Not classifiable as to carcinogenicity to humans

Toluene (CAS 108-88-3) 3 Not classifiable as to carcinogenicity to humans

US. OSHA Specifically Regulated Substances (29CFR 1910.1001-1050)

Not Regulated

Reproductive toxicity: Suspected of damaging fertility or the unborn child.

Specific target organ toxicity - single exposure: Not available.

Specific target organ toxicity - repeated exposure: Not available.

Aspiration hazard: Not available.

Chronic effects: Not relevant at normal room temperatures. When heated, harmful vapors may formed.

12: ECOLOGICAL INFORMATION

Ecotoxicological data

Contains a substance which causes risk of hazardous effects to the environment.

Product	Species	Test Results
Ram Caulk		
Aquatic		
Crustacea	EC50 Water flea (<i>Daphnia magna</i>)	5.46 - 9.83 mg/l, 48 hr
Fish	LC50 Coho salmon, silver salmon (<i>Oncorhynchus kisutch</i>)	5.5 mg/l, 96 hr

Components

Polydimethylsiloxane (CAS 9016-00-6)

Aquatic

Fish LC50 **Channel catfish (*Ictalurus punctatus*)** 2.36 - 4.15 mg/l, 96 hours

Toluene (108-88-3)

Aquatic

Crustacea EC50 Water flea (*Daphnia magna*) 5.46 - 9.83 mg/l, 48 hours

Fish LC50 Coho salmon, silver salmon (*Oncorhynchus kisutch*) 8.11 mg/l, 96 hours

* Estimates for products may be based on additional component data not shown.

Persistence and degradability: Not available.

Bioaccumulative potential: Not available.

Partition coefficient n-octanol / water (log Kow)

Toluene 2.73

Mobility in soil: Not available.

Other adverse effects: Not available.

13:**DISPOSAL CONSIDERATIONS**

Disposal instructions: Contract with a disposal operator licensed by the Law on Disposal and Cleaning. Do not dispose of waste into sewer. Do not allow this material to drain into sewers/water supplies. This product, in its present state, when discarded or disposed of, is not a hazardous waste according to Federal regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste. Dispose of contents/container in accordance with local/regional/national/international regulations. Dispose in accordance with all applicable regulations.

Hazardous waste code: Not regulated.

US RCRA Hazardous Waste U List: Reference

Toluene (CAS 108-88-3)

U220

Waste from residues/ unused products: Dispose of in accordance with local regulations.

Contaminated packaging: Offer rinsed packaging material to local recycling facilities.

14:**TRANSPORTATION INFORMATION**

DOT: Not regulated as dangerous goods.

IATA: Not regulated as dangerous goods.

IMDG: Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not available.

15:**REGULATORY INFORMATION**

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard 29CFR 1910.1200.

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

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Toluene (CAS 108-88-3) Listed.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)**Hazard categories**

Immediate Hazard - No

Delayed Hazard – Yes

Fire Hazard – No

Pressure Hazard – No

Reactivity Hazard - No

SARA 302 extremely hazardous substance

Not listed.

SARA 311/312 hazardous chemical

No

SARA 313 (TRI reporting)**Chemical name****CAS number****% by wt.**

Toluene

108-88-3

2.37

Other federal regulations**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Toluene (CAS 108-88-3)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130) Not regulated.

Clean Water Act (CWA) Section 112(r) (40 CFR 68.130)

Hazardous substance

Safe Drinking Water Act (SDWA)

Not regulated.

US State Regulations WARNING: This product contains chemicals known to the State of California to cause birth defects or other reproductive harm.

US. California Proposition 65**US - California Proposition 65 – CRT: Listed date/Developmental toxin**

Toluene (CAS 108-88-3)

Listed: January 1, 1991

US - California Proposition 65 - CRT: Listed date/Female reproductive toxin

Toluene (CAS 108-88-3)

Listed: August 7, 2009

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3 subd. (a))

Toluene (CAS 108-88-3)

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of chemical Substances (ACIS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16: OTHER INFORMATION

Issue date: 08-11-2017

Version #: 01

Further information: HMIS® is a registered trade and services mark of the NPCA.

NFPA ratings: Health: 2
Flammability: 1
Instability: 0

References: ACGIH
EPA: AQUIRE database
NLM: Hazardous Substances Data Base
US. IARC Monographs on Occupational Exposures to Chemical Agents
HSDB® - Hazardous Substances Data Bank
ARC Monographs. Overall Evaluation of Carcinogenicity
National Toxicology Program (NTP) Report on Carcinogens
ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices

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Revision Information: Product and company Identification: Synonyms
Composition I Information on Ingredients: Disclosure Overrides
Physical & Chemical Properties: Multiple Properties
Toxicological Information: Toxicological Data
Ecological Information: Ecotoxicity
Transport Information: Proper Shipping Name/Packaging Group
Regulatory Information: United States
HazReg Data: International Inventories
GHS Classification