

Material Safety Data Sheet

CertainTeed

HEALTH	2
FLAMMABILITY	2
PHYSICAL HAZARD	0
PERSONAL PROTECTION	B

MSDS Number: CT 10061-2
DATE PREPARED: November 28, 2007

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product/Trade Name:

FlintBond™ and FlintPatch™ (5-gallon, 3-gallon and 10.3-oz containers);
FlintSeal™ Adhesive (5-gallon)

Chemical Name: Mixture

CAS #: Not Applicable

Common Name: None

Product Use: Asbestos free cold applied bonding, patching and adhesive compounds used to adhere roofing membranes, and/or seal or repair existing roofing systems. FlintBond™ is an SBS modified bitumen adhesive available in brush, trowel and caulk grades. FlintPatch™ is a wet/dry rubberized flashing cement available in three consistencies: Summer, Semi, and Winter. FlintSeal™ Adhesive is SBS modified adhesive available in brush and trowel grades.

MANUFACTURER INFORMATION:

CertainTeed Corporation
P.O. Box 860
Valley Forge, PA 19482-0101

TELEPHONE AND E-MAIL:

(610) 341-7000 9 AM – 5 PM
(Eastern Time – USA)
CertainTeed-EHS@saint-gobain.com

EMERGENCY TELEPHONE: CHEMTREC (800) 424-9300

2. HAZARD IDENTIFICATION

Emergency Overview

APPEARANCE AND OPOR: Viscous, black liquid, petroleum odor.

May cause irritation to the respiratory system, skin and eyes, If ingested may cause gastrointestinal irritation. Product may be absorbed by skin. Absorption may result in moderate irritation, defatting and dermatitis.

Summary

Avoid breathing vapors and contact with eyes and skin. Excessive inhalation of vapors may cause nasal or respiratory irritation. Eye contact may cause severe irritation, redness, tearing, and blurred vision. Skin contact may cause moderate irritation. Prolonged exposure may cause defatting and dermatitis. Ingestion of this product may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Routes of Exposure:

Inhalation, ingestion, skin, and eye contact.

Potential Health Effects: Eyes

This product may cause severe irritation, redness, or blurred vision.

Potential Health Effects: Skin

Prolonged and/or repeated skin contact with this product may cause irritation/dermatitis. This product may be harmful if it is absorbed through the skin.

Potential Health Effects: Ingestion

Ingestion of this product may cause headache, nausea, weakness, drowsiness, vomiting, dizziness, diarrhea, gastrointestinal irritation, central nervous system depression, convulsions and unconsciousness. May cause burning sensation in the mouth, esophagus and stomach. May cause kidney damage. Lung damage may occur if aspirated into the lungs and may be fatal.

Potential Health Effects: Inhalation

Repeated inhalation may be harmful; lung irritation and serious central nervous system disorders may result. Intentional misuse by deliberately inhaling this product may be harmful or fatal.

Medical Conditions Aggravated by Exposure: None.

HMIS Ratings: Health: 2 Fire: 2 Physical Hazard: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic hazard

3. COMPOSITION / INFORMATION ON INGREDIENTS

CAS #	Component	Percent*
8052-42-4	Petroleum Asphalt	<55
8052-41-3	Stoddard solvent	<35
Not Available	Modifier	<15
9004-34-6	Cellulose	<10
1317-65-3	Limestone	<10

Component Information/Information on Non-Hazardous Components

This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).

This material is a controlled product under Canadian WHMIS regulations

*Concentration ranges do not fall under the prescribed WHMIS ranges. Stated concentrations represent maximum variation of each batch of product.

4. FIRST AID MEASURES

First Aid: Eyes

Immediately flush eyes with water for at least 15 minutes, while holding eyelids open. Seek medical attention at once.

First Aid: Skin

Wash exposed areas with soap and water for at least 15 minutes. Remove contaminated clothing. If irritation develops or persists, seek medical attention. Launder contaminated clothing before reuse.

First Aid: Ingestion

Aspiration hazard. DO NOT induce vomiting. If vomiting does occur, keep head lower than hips to help prevent aspiration. Get immediate medical attention.

First Aid: Inhalation

If inhaled, remove the affected person to fresh air. If symptoms persist, get medical attention.

5. FIRE FIGHTING MEASURES**General Fire Hazards:**

See Section 9 for Flammability Properties.

May be ignited by heat, sparks or flames. Containers exposed to elevated temperatures (such as heat, sparks or flames) may explode. Vapors may travel and can be ignited by a remote source of ignition and flash back. Vapor explosion hazard indoors, outdoors or in sewers. Runoff to sewer may create fire or explosion hazard.

Hazardous Combustion Products:

Fire may produce irritating or poisonous gases. Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

Extinguishing Media: Dry chemical, foam, carbon dioxide, water fog.

Fire Fighting Equipment/Instructions:

Wear full protective clothing, including helmet, self-contained positive pressure breathing apparatus, protective clothing and face mask.

NFPA Ratings: Health: 2 Fire: 2 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

6. ACCIDENTAL RELEASE MEASURES**Containment Procedures:**

Remove sources of ignition. Dike the spilled material, where this is possible. Prevent entry to sewers, or other water sources. For small spills, collect material with an inert absorbent such as sand or vermiculite. Place in properly labeled closed container. For large spills, dike far ahead or spill for later disposal. Stop leak if you can do it without risk. Evacuate and ventilate spill area. Dam spill area with sand, earth, or other suitable absorbent.

Clean-Up Procedures:

Ventilate the contaminated area. Absorb spilled material with inert absorbent (sand, earth). Shovel material into an appropriate container for disposal or recovery. Dispose of in accordance with Federal, State and local regulations in a permitted waste management facility.

Evacuation Procedures:

Evacuate the area promptly. Keep upwind of the spilled material and isolate exposure.

Special Procedures: No additional information available.

7. HANDLING AND STORAGE

Handling Procedures:

Do not inhale vapors. Avoid eye and skin contact. Use only with adequate ventilation. Wear impervious clothing and gloves. Keep away from heat and flame. Wash thoroughly after handling. Vapors are heavier than air and may travel along the ground or be moved by ventilation to locations distant from the point of material handling. To prevent vapors from entering buildings or confined areas, close all air-intake sources near the material handling or the work area.

Storage Procedures:

Do not handle or store near an open flame, heat or other sources of ignition. Store in a cool, dry, well-ventilated area.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

A: Component Exposure Limits:

Petroleum Asphalt (8052-42-4)

ACGIH: 0.5 mg/m³ TWA (fume, inhalable fraction, as benzene soluble aerosol)
NIOSH: 5 mg/m³ Ceiling (15 min, fumes)

Stoddard Solvent (8052-41-3)

ACGIH: 100 ppm TWA
OSHA: 500 ppm TWA; 2900 mg/m³ TWA
NIOSH: 350 mg/m³ TWA
1800 mg/m³ Ceiling (15 min)

Limestone (1317-65-3)

OSHA: 15 mg/m³ TWA (total dust); 5 mg/m³ TWA (respirable fraction)
NIOSH: 10 mg/m³ TWA (total dust); 5 mg/m³ TWA (respirable dust)

Cellulose (9004-34-6)

ACGIH: 10 mg/m³ TWA
OSHA: 15 mg/m³ TWA (total dust); 5 mg/m³ TWA (respirable fraction)
NIOSH: 10 mg/m³ TWA (total dust); 5 mg/m³ TWA (respirable dust)

Engineering Controls:

Provide adequate local exhaust ventilation to maintain worker exposures below exposure limits identified in Section 8.

PERSONAL PROTECTIVE EQUIPMENT

Personal Protective Equipment: General

Use appropriate personal protective equipment when handling this product. Eye wash fountain and emergency showers are recommended in areas where this product may be handled.

Personal Protective Equipment: Eyes/Face

Safety glasses with sideshields or chemical goggles are recommended. Add face shield if splashing is possible.

Personal Protective Equipment: Skin

Wear impervious gloves such as nitrile or Viton® (consult glove manufacturer for specific breakthrough times). Wear appropriate chemical resistant clothing.

Personal Protective Equipment: Respiratory

If ventilation is not sufficient to effectively prevent build-up of vapors, appropriate NIOSH-approved (or equivalent) respiratory protection must be provided with NIOSH-approved (or equivalent) cartridges for protection against organic vapors and a P100 HEPA filter.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Black	Odor:	Mild petroleum odor
Physical State:	Viscous Liquid	pH:	Not Available
Vapor Pressure:	Not Available.	Vapor Density:	Heavier than air.
Boiling Point:	300-390°F (149-199°C)	Melting Point:	Not Applicable
Solubility (H2O):	Insoluble	Specific Gravity:	Not Available
Evaporation Rate:	Slower than ether	Bulk Density:	8.7 lbs/gallon
Percent Volatile:	50% by volume	Flash Point:	Not Available.
Flash Point Method:	Not Available	Lower Flammability Limit:	Not Available
Upper Flammability Limit:	Not Available	Auto Ignition Temp.:	Not Available
Burning Rate:	Not Available		

10. CHEMICAL STABILITY AND REACTIVITY INFORMATION

Chemical Stability: Stable under normal conditions.

Conditions to Avoid: Heat and flames.

Incompatibility: Strong oxidizers

Hazardous Decomposition:

Fire may produce irritation or poisonous gases. This product emits hydrogen sulfide, sulfur dioxide, carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

Possibility of Hazardous Reactions: Will not occur.

11. TOXICOLOGICAL INFORMATION

Acute Dose Effects

A: General Product Information

May cause irritation to the respiratory system, skin and eyes. Ingestion of this product may cause gastrointestinal irritation, headache, vomiting, diarrhea, drowsiness, dizziness, tremors, loss of coordination, lung congestion, internal bleeding, heart damage and unconsciousness. This product contains components that may be absorbed by skin. Absorption may result in moderate irritation, defatting and dermatitis.

This product has not been tested as a separate entity. Therefore, the hazards must be evaluated on the basis of the individual ingredients, and those hazards must be assumed to be additive in the absence of complete information. The hazards described in this document have been evaluated on a threshold of 1.0% for all hazardous ingredients and 0.1% for all carcinogens.

Repeated Dose Effects:

This product may cause central nervous system depression after prolonged exposure, if ingested or inhaled.

Carcinogenicity

A: General Product Information: Asphalt (8052-42-2) is classified as a group 2B (Possibly carcinogenic to humans) by IARC. This product may cause central nervous system depression after prolonged exposure, if ingested or inhaled.

**B: Component Carcinogenicity
Petroleum Asphalt (8052-42-4)**

ACGIH: A4 - Not Classifiable as a Human Carcinogen
NIOSH: Potential occupational carcinogen
IARC: Supplement 7 [1987], Monograph 35 [1985] (Group 3 (not classifiable))

Mutagenicity: No information available for the product.

Teratogenicity: No information available for the product.

Developmental Effects: No information available for the product.

12. ECOLOGICAL INFORMATION

Ecotoxicity

A: General Product Information

This product has not been tested.

B: Component Analysis - Ecotoxicity - Aquatic Toxicity

No ecotoxicity data are available for this product's components.

Environmental Fate: No information available for the product.

13. WASTE DISPOSAL CONSIDERATIONS

US EPA Waste Number & Descriptions

A: General Product Information

If discarded, this product is considered a RCRA ignitable waste, D001. This product contains components identified as hazardous under 40 CFR 261.24.

B: Component Waste Numbers

No EPA-listed Waste Numbers are being shown for this product's components.

Disposal Instructions

Dispose of waste material according to Federal, State, local and Provincial environmental regulations. See Section 7 for Handling Procedures; see Section 8 for Personal Protective Equipment recommendations.

14. TRANSPORTATION INFORMATION

US DOT Information

Shipping Name: Combustible liquid, n.o.s. (Contains: Petroleum Asphalt , Stoddard solvent)

UN/NA #: NA1993 **Hazard Class:** Combustible liquid **Packing Group:** III

TDG Information

Shipping Name: Not classified as a Dangerous Good for transportation.

15. REGULATORY INFORMATION

US Federal

A: General Product Information:

B: CERCLA

None of the components of this product are listed under CERCLA (40 CFR 302.4) and present in the material at an amount exceeding the Reportable Quantity (RQ).

Acute Health: Yes **Chronic Health:** No **Fire:** Yes **Pressure:** No **Reactive:** No

State Regulations

A: General Product Information

No information available.

B: Component Analysis - State

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS #	CA	MA	MN	NJ	PA	RI
Petroleum Asphalt	8052-42-4	Yes	Yes	Yes	Yes	Yes	Yes
Stoddard solvent	8052-41-3	Yes	Yes	Yes	Yes	Yes	Yes
Limestone	1317-65-3	No	Yes	Yes	No	Yes	Yes
Cellulose	9004-34-6	No	Yes	Yes	No	Yes	Yes

C: California Safe Drinking Water and Toxics Enforcement Act (Proposition 65)

The following statement(s) are provided under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):

WARNING! This product contains a chemical known to the state of California to cause cancer and/or birth defects or other reproductive harm.

Canadian WHMIS Information

A: General Product Information

WHMIS Class B3 – Combustible Liquid

WHMIS Class D2B – Chronic Toxic Effects - Irritating to eyes and skin

B: Component Analysis - WHMIS IDL

The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List:

Component	CAS #	Minimum Concentration
Stoddard solvent	8052-41-3	1 %; English Item 1468; French Item 1498

WHMIS Classification:

WHMIS Class B3 – Combustible Liquid

WHMIS Class D2B – Chronic Toxic Effects - Irritating to eyes and skin

Additional Regulatory Information

A: General Product Information

Components of this product have been checked against the non-confidential TSCA inventory by CAS Registry Number. Components not identified on this non-confidential inventory are either exempt from listing (i.e. polymers, hydrates) or are listed on the confidential inventory as declared by the supplier.

B: Component Analysis - Inventory

Component	CAS #	TSCA	DSL	EINECS
Petroleum Asphalt	8052-42-4	Yes	Yes	Yes
Stoddard solvent	8052-41-3	Yes	Yes	Yes
Limestone	1317-65-3	Yes	No	Yes
Cellulose	9004-34-6	Yes	Yes	Yes

16. ADDITIONAL COMMENTS

Other Information

Disclaimer: Supplier gives no warranty of merchantability or of fitness for a particular purpose. Any product purchased is sold on the assumption the purchaser will make his own tests to determine the quality and suitability of the product. Supplier expressly disclaims any and all liability for incidental and/or consequential property damage arising out of the use of this product. No information provided shall be deemed to be a recommendation to use any product in conflict with any existing patent rights. Read the Material Safety Data Sheet before handling product.

Acronyms/definitions used in this MSDS:

- ACGIH American Conference of Governmental Industrial Hygienists;
- CAS # Chemical Abstracts Services Number;
- CERCLA Comprehensive Environmental Response, Compensation and Liability Act;
- CFR Code of Federal Regulations;
- EPA Environmental Protection Agency;
- HMIS Hazardous Material Identification System;
- IARC International Agency for Research on Cancer;
- LFL Lower Flammable Limit;
- mg/m³ Milligrams per cubic meter;
- NFPA National Fire Protection Association;
- NIOSH National Institute for Occupational Safety and Health;
- NTP National Toxicology Program;
- OSHA Occupational Safety and Health Administration;
- ppm Parts per million;
- PEL Permissible Exposure Limit;
- REL Recommended Exposure Limit;
- SARA Superfund Amendments and Reauthorization Act;
- RCRA Resource Conservation and Recovery Act;
- Title III Emergency Planning and Community Right to Know Act;
Section 302- Extremely Hazardous Substances;
Section 313- Toxic Chemicals;
- TLV Threshold Limit Value;
- TWA Time Weighted Average;
- UFL Upper Flammable Limit.

MSDS History

MSDS Revision Summary:

<u>Date</u>	<u>MSDS No.</u>	<u>Comments</u>
08/27/2003	CT 10061-1	New MSDS
05/12/2005	CT10061-1	Added FlintSeal™ Adhesive
6/15/2007	CT 10061-2	Formulation modification
11/28/2007	CT 10061-2	Added HMIS information Reformat section numbering

This is the end of MSDS # CT 10061-2