



# MATERIAL SAFETY DATA SHEET

## 1. Product and Company Identification

**Material name** N-FLASH SPLICING CEMENT  
**Version #** 07  
**Revision date** 24-February-2011  
**Chemical name** Synthetic Rubber/Resin in Solvent(s)  
**Chemical description** Liquid  
**CAS #** Mixture  
**Manufacturer information** CETCO  
Building Materials Group  
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Hoffman Estates, IL 60192 US  
safety.data@amcol.com  
http://www.cetco.com/  
General Information (800) 527-9948  
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## 2. Hazards Identification

### Potential health effects

**Routes of exposure** Inhalation. Ingestion. Skin contact.

**Eyes** Contact with liquid or mist will irritate the eyes. Symptoms include itching, burning, redness and tearing.

**Skin** Substance may cause slight skin irritation. A single exposure is not likely to result in the product being absorbed through the skin in harmful amounts. Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash).

**Inhalation** No hazard in normal industrial use. Intentional misuse by concentrating and inhaling the product can be harmful or fatal.

**Ingestion** Small amounts (a tablespoonful) swallowed during normal handling operations are not likely to cause injury; swallowing amounts larger than that may cause injury. Harmful: may cause lung damage if swallowed.

**Chronic effects** Edema. Liver injury may occur. Jaundice. Kidney injury may occur. May cause central nervous system disorder (e.g., narcosis involving a loss of coordination, weakness, fatigue, mental confusion, and blurred vision) and/or damage. Shortness of breath. May cause delayed lung damage.

**Signs and symptoms** Edema. Proteinuria. Jaundice. Liver enlargement. Narcosis. Behavioral changes. Decrease in motor functions. Cough. Discomfort in the chest. Shortness of breath. Symptoms may be delayed.

## 3. Composition / Information on Ingredients

Components	CAS #	Percent
TOLUENE	108-88-3	40 - 70
Solvent naphtha (petroleum), light aliphatic	64742-89-8	10 - 30
N-HEXANE	110-54-3	3 - 7
Xylenes (o-, m-, p- isomers)	1330-20-7	3 - 7

## 4. First Aid Measures

### First aid procedures

**Eye contact** Immediately flush eyes with plenty of water for at least 20 minutes. Get medical attention immediately.

**Skin contact** Remove and isolate contaminated clothing and shoes. Launder contaminated clothing before reuse. Wash off with soap and plenty of water. Get medical attention if irritation develops or persists.

**Inhalation** If symptoms are experienced, remove source of contamination or move victim to fresh air. If symptoms persist, get medical attention. If not breathing, give artificial respiration or give oxygen by trained personnel.

**Ingestion**

If ingestion of a large amount does occur, seek medical attention. Never give anything by mouth to a victim who is unconscious or is having convulsions. Do not induce vomiting without medical advice. If a person vomits when lying on his back, place him in the recovery position.

**Notes to physician**

This material, if aspirated into the lungs, may cause chemical pneumonitis; treat the affected person appropriately. In case of ingestion, the decision of whether or not to induce vomiting should be made by the attending physician.

**General advice**

In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Keep victim warm. In case of shortness of breath, give oxygen. Keep victim under observation. Call a physician if symptoms develop or persist.

**5. Fire Fighting Measures****Flammable properties**

Containers may explode when heated. Vapors form flammable or explosive mixtures with air at room temperature. Vapor or gas may spread to distant ignition sources and flash back. Runoff to sewer may cause fire or explosion hazard.

**Extinguishing media****Suitable extinguishing media**

Carbon dioxide (CO<sub>2</sub>). Alcohol foam. Dry chemical.

**Unsuitable extinguishing media**

Do not use a solid water stream as it may scatter and spread fire.

**Protection of firefighters****Protective equipment for firefighters**

Structural firefighters protective clothing will only provide limited protection. Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask.

**Fire fighting equipment/instructions**

Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask. Move containers from fire area if you can do it without risk. Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Withdraw immediately in case of rising sound from venting safety devices or any discoloration of tanks due to fire. ALWAYS stay away from tanks engulfed in flame. For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn. Cool containers with flooding quantities of water until well after fire is out. In the event of fire, wear self-contained breathing apparatus. Some of these materials, if spilled, may evaporate leaving a flammable residue.

**Specific methods**

In the event of fire and/or explosion do not breathe fumes. In the event of fire, cool tanks with water spray.

**Hazardous combustion products**

Fire may produce irritating, corrosive and/or toxic gases.

**6. Accidental Release Measures****Environmental precautions**

Do not contaminate water. Do not flush into surface water or sanitary sewer system. Runoff from fire control or dilution water may cause pollution.

**Methods for containment**

Stop leak if you can do so without risk. Dike the spilled material, where this is possible. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area).

**Methods for cleaning up**

Large Spills: Should not be released into the environment. Dike far ahead of liquid spill for later disposal. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Use clean non-sparking tools to collect absorbed material. Water spray may reduce vapor; but may not prevent ignition in closed spaces.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean contaminated surface thoroughly.

Never return spills in original containers for re-use.

**7. Handling and Storage****Handling**

Vapors may form explosive mixtures with air. Use non-sparking tools when opening or closing containers. Do not handle or store near an open flame, heat or other sources of ignition. All equipment used when handling the product must be grounded. "Empty" containers retain product residue (liquid or vapor) and can be dangerous.

**Storage**

Keep containers tightly closed in a cool, well-ventilated place. Keep out of the reach of children. Keep this material away from food, drink and animal feed.

Keep away from heat and sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. The pressure in sealed containers can increase under the influence of heat.

## 8. Exposure Controls / Personal Protection

### Occupational exposure limits

#### Canada - British Columbia

Components	Type	Value	Form
N-HEXANE (110-54-3)	TWA	20.0000 ppm	Vapor and aerosol, inhalable.
TOLUENE (108-88-3)	TWA	20.0000 ppm	
Xylenes (o-, m-, p- isomers) (1330-20-7)	STEL	150.0000 ppm	
	TWA	0.5000 ppm	
		100.0000 ppm	

#### Canada - Ontario

Components	Type	Value
N-HEXANE (110-54-3)	TWA	50.0000 ppm
		176.0000 mg/m3
TOLUENE (108-88-3)	TWA	20.0000 ppm
Xylenes (o-, m-, p- isomers) (1330-20-7)	STEL	150.0000 ppm
		650.0000 mg/m3
	TWA	100.0000 ppm
		435.0000 mg/m3

#### Canada - Quebec

Components	Type	Value
N-HEXANE (110-54-3)	TWA	176.0000 mg/m3
		50.0000 ppm
TOLUENE (108-88-3)	TWA	50.0000 ppm
		188.0000 mg/m3
Xylenes (o-, m-, p- isomers) (1330-20-7)	STEL	150.0000 ppm
		651.0000 mg/m3
	TWA	434.0000 mg/m3
		100.0000 ppm

### Engineering controls

Provide adequate ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

### Personal protective equipment

#### Eye / face protection

Wear chemical goggles and face shield.

#### Skin protection

Wear appropriate chemical resistant gloves. Wear suitable protective equipment. Choose body protection according to the amount and concentration of the dangerous substance at the work place. Launder contaminated clothing before reuse.

#### Respiratory protection

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Use an organic vapor respirator for concentrations exceeding the Occupational Exposure Limit.

## 9. Physical & Chemical Properties

Appearance	Not available.
Color	Black.
Odor	Not available.
Odor threshold	Not available.
Physical state	Not available.
Form	Not available.
pH	Not available.
Melting point/Freezing point	Not available.
Boiling point	140 - 219.2 °F (60 - 104.4 °C)
Flash point	-0.4 °F (-17.7 °C) Setflash
Evaporation rate	Not available.
Flammability limits in air, upper, % by volume	Not available.
Flammability limits in air, lower, % by volume	> 1 %
Vapor pressure	227 mm Hg

Vapor density	> 1 where Air = 1
Specific gravity	0.849 @ 77F
Relative density	7.07 lb/gal
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
VOC	5.51 lb/gal

## 10. Chemical Stability & Reactivity Information

Chemical stability	Stable at normal conditions. Risk of ignition.
Conditions to avoid	Heat, flames and sparks. Vapour/air-mixtures are explosive at intense warming.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	At thermal decomposition temperatures, carbon monoxide and carbon dioxide. Phenolic fumes may be released upon decomposition.
Possibility of hazardous reactions	Will not occur.

## 11. Toxicological Information

### Toxicological data

#### Product

N-FLASH SPLICING CEMENT (Mixture)

#### Test Results

Acute Dermal LD50 Rabbit: 6428 mg/kg estimated  
 Acute Dermal LD50 Rabbit: 915 g/kg estimated  
 Acute Dermal LD50 Rat: 5962 mg/kg  
 Acute Inhalation LC50 Mouse: 4788 mg/l estimated  
 Acute Inhalation LC50 Rat: 33994 mg/l estimated  
 Acute Inhalation LC50 Rat: 31 mg/l/4h  
 Acute Oral LD50 Mouse: 76777 mg/kg estimated  
 Acute Oral LD50 Rat: 1079 mg/kg  
 Acute Oral LD50 Wistar rat: 980 mg/kg estimated

#### Components

TOLUENE (108-88-3)

#### Test Results

Acute Dermal LD50 Rabbit: 8390 mg/kg  
 Acute Dermal LD50 Rat: 12124 mg/kg  
 Acute Inhalation LC50 Mouse: 400 mg/l 24.00 Hours  
 Acute Inhalation LC50 Rat: 26700 mg/l 1.00 Hours  
 Acute Inhalation LC50 Rat: 12.5 mg/l/4h  
 Acute Oral LD50 Rat: 636 mg/kg

N-HEXANE (110-54-3)

Acute Other LD50 Rat: 1960 mg/kg  
 Acute Dermal LD50 Rabbit: 3000 mg/kg  
 Acute Inhalation LC50 Mouse: 48000 mg/l 4.00 Hours  
 Acute Inhalation LC50 Rat: 48000 mg/l/4h  
 Acute Inhalation LC50 Rat: <= 48000 mg/l 4.00 Hours  
 Acute Oral LD50 Rat: 25000 mg/kg  
 Acute Oral LD50 Rat: 24 mg/kg

Xylenes (o-, m-, p- isomers) (1330-20-7)

Acute Oral LD50 Wistar rat: 49 mg/kg  
 Acute Dermal LD50 Rabbit: 1700 mg/kg  
 Acute Dermal LD50 Rabbit: >= 43 g/kg  
 Acute Inhalation LC50 Mouse: 3907 mg/l 6.00 Hours  
 Acute Inhalation LC50 Rat: 6350 mg/l 4.00 Hours  
 Acute Inhalation LC50 Rat: 5000 mg/l/4h  
 Acute Inhalation LCL0 Rat: 8000 mg/l 4.00 Hours  
 Acute Oral LD50 Mouse: 1590 mg/kg

## Components

Xylenes (o-, m-, p- isomers) (1330-20-7)  
Solvent naphtha (petroleum), light aliphatic (64742-89-8)

## Test Results

Acute Oral LD50 Rat: 4300 mg/kg  
Acute Oral LD50 Rat: 3523 - 8600 mg/kg  
Acute Dermal LD50 Rabbit: 3000 mg/kg  
Acute Oral LD50 Rat: 5000 mg/kg

## Sensitization

### US ACGIH Threshold Limit Values: Skin designation

N-HEXANE (CAS 110-54-3)

Can be absorbed through the skin.

### Local effects

Irritating to eyes and skin. Harmful by inhalation and in contact with skin. Toxic by inhalation, in contact with skin and if swallowed. Liver toxicity. Very toxic by inhalation, in contact with skin and if swallowed. Vapors may cause dizziness or suffocation.

### Chronic effects

Danger of serious damage to health by prolonged exposure. Prolonged or repeated exposure may cause lung injury. Repeated absorption may cause disorder of central nervous system, liver, kidneys and blood. Prolonged exposure may cause chronic effects.

### Subchronic effects

Kidney injury may occur.

### Carcinogenicity

Suspect cancer hazard.

### IARC Monographs. Overall Evaluation of Carcinogenicity

TOLUENE (CAS 108-88-3)

3 Not classifiable as to carcinogenicity to humans.

Xylenes (o-, m-, p- isomers) (CAS 1330-20-7)

3 Not classifiable as to carcinogenicity to humans.

### Reproductive effects

Possible reproductive hazard. Potential embryo-fetal toxicity and teratogenicity.

### Teratogenicity

Avoid exposure to women during early pregnancy.

## 12. Ecological Information

### Ecotoxicological data

#### Product

N-FLASH SPLICING CEMENT (Mixture)

#### Test Results

EC50 Daphnia: 19.23 mg/l 48.00 Hours estimated  
LC50 Fish: 123 mg/l 96.00 Hours estimated

#### Components

TOLUENE (108-88-3)

#### Test Results

EC50 Daphnia: 11.3 mg/L 48.00 Hours  
EC50 Water flea (Daphnia magna): 5.46 - 9.83 mg/l 48.00 hours  
LC50 Coho salmon, silver salmon (Oncorhynchus kisutch): 5.5 mg/l 96.00 hours  
LC50 Fish: 25 mg/L 96.00 Hours  
LC50 Fathead minnow (Pimephales promelas): 2.101 - 2.981 mg/l 96.00 hours  
LC50 Fish: 4.14 mg/l 96.00 Hours  
LC50 Fish: 13.4 mg/L 96.00 Hours  
LC50 Rainbow trout, donaldson trout (Oncorhynchus mykiss): 2.661 - 4.093 mg/l 96.00 hours  
IC50 Algae: 4700 mg/L 72.00 Hours

N-HEXANE (110-54-3)

Xylenes (o-, m-, p- isomers) (1330-20-7)

Solvent naphtha (petroleum), light aliphatic (64742-89-8)

### Ecotoxicity

Components of this product are hazardous to aquatic life. No data is available on the product itself.

### Environmental effects

No data available for this product.

### Persistence and degradability

Not available.

## 13. Disposal Considerations

### Disposal instructions

Dispose in accordance with all applicable regulations. Do not allow this material to drain into sewers/water supplies.

## 14. Transport Information

### TDG

**Proper shipping name** ADHESIVES containing flammable liquid  
**Hazard class** 3  
**UN number** UN1133  
**Packing group** II



TDG

## 15. Regulatory Information

**WHMIS status** Controlled  
**WHMIS classification** B2 - Flammable/Combustible  
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)*
Australia	Australian Inventory of Chemical Substances (AICS)	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)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	No
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)

## 16. Other Information

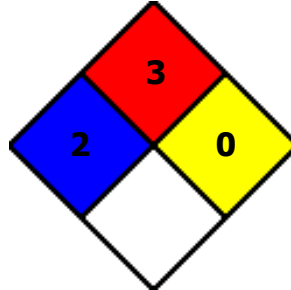
**Recommended restrictions** Workers (and your customers or users in the case of resale) should be informed of the potential presence of respirable dust and respirable crystalline silica as well as their potential hazards. Appropriate training in the proper use and handling of this material should be provided as required under applicable regulations.

**Further information** This safety datasheet only contains information relating to safety and does not replace any product information or product specification.

**HMIS ratings**

HMIS®	
<b>HEALTH</b>	* 2
<b>FLAMMABILITY</b>	3
<b>PHYSICAL HAZARD</b>	0
PERSONAL PROTECTION	

**NFPA ratings**



**Disclaimer**

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**Issue date**

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