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 2870 Forbs Avenue Hoffman Estates, IL 60192 US safety.data@amcol.com http://www.cetco.com/ General Information (800) 527-9948 CHEMTREC® (800) 424-9300

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 - 60
Hexane	110-54-3	2.5 - 10
Xylenes (o-, m-, p- isomers)	1330-20-7	2.5 - 10

4. First Aid Measures

First aid procedures

Immediately flush eyes with plenty of water for at least 20 minutes. Get medical attention immediately.
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.
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 (CO2). 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 and precautions for firefighters	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.
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.
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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.

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

ACGIH			
Components		Туре	Value
Hexane (110-54-3)		TWA	50.0000 ppm
Toluene (108-88-3)		TWA	20.0000 ppm
Xylenes (o-, m-, p- isomers) (1330-20-7)	STEL	150.0000 ppm
		TWA	100.0000 ppm
U.S OSHA			
Components		Туре	Value
Hexane (110-54-3)		PEL	1800.0000
			mg/m3
			500.0000 ppm
		TWA	50.0000 ppm
			180.0000 mg/m3
Toluene (108-88-3)		Ceiling	300.0000 ppm
		STEL	150.0000 ppm
			560.0000 mg/m3
		TWA	100.0000 ppm
			375.0000 mg/m3
Xylenes (o-, m-, p- isomers) (1330-20-7)	PEL	100.0000 ppm
			435.0000 mg/m3
		STEL	150.0000 ppm
			655.0000 mg/m3
		TWA	100.0000 ppm
			435.0000 mg/m3
gineering controls		Provide adequate ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.	
rsonal protective equipmer	nt		
Eye / face protection	Wear chemical go	Wear chemical goggles and face shield.	
Skin protection	protection accordir	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.
рН	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) Setaflash
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	Test Results
N-FLASH SPLICING CEMENT (Mixture)	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	Test Results
Toluene (108-88-3)	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
	Acute Other LD50 Rat: 1960 mg/kg
Hexane (110-54-3)	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
	Acute Oral LD50 Wistar rat: 49 mg/kg
Xylenes (o-, m-, p- isomers) (1330-20-7)	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

Components		Test Results
Xylenes (o-, m-, p- isomers) (1330-20-7)		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
		Acute Oral LD50 Rat: 4300 mg/kg
		Acute Oral LD50 Rat: 3523 - 8600 mg/kg
Sensitization		
US ACGIH Threshold Limit \	/alues: Skin designation	
Hexane (CAS 110-54-3)	4-3) 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.	
ACGIH Carcinogens		
Toluene (CAS 108-88-3) Xylenes (o-, m-, p- isomers) (CAS 1330-20-7) IARC Monographs. Overall Evaluation of Carcinogenicity		A4 Not classifiable as a human carcinogen. A4 Not classifiable as a human carcinogen. y
Toluene (CAS 108-88-3) Xylenes (o-, m-, p- isomers) (CAS 1330-20-7)		3 Not classifiable as to carcinogenicity to humans.3 Not classifiable as to carcinogenicity to humans.
Reproductive effects	Possible reproductive hazar	d. Potential embryo-fetal toxicity and teratogenicity.
Teratogenicity	Avoid exposure to women during early pregnancy.	

12. Ecological Information

Product		Test Results	
N-FLASH SPLICING CEMENT (M	1ixture)	EC50 Daphnia: 19.23 mg/l 48.00 Hours estimated	
		LC50 Fish: 123 mg/l 96.00 Hours estimated	
Components		Test Results	
Toluene (108-88-3)		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	
Hexane (110-54-3)		LC50 Fathead minnow (Pimephales promelas): 2.101 - 2.981 mg/l 96.00 hours	
		LC50 Fish: 4.14 mg/L 96.00 Hours	
Xylenes (o-, m-, p- isomers) (1330-20-7)		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	
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.		
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13. Disposal Considerations

Waste codes

US RCRA Hazardous Waste U List: Reference

Toluene (CAS 108-88-3) U220 U239 Xylenes (o-, m-, p- isomers) (CAS 1330-20-7)

Disposal instructions

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

14. Transport Information

DOT

DOT				
Basic shipping requireme	ents:			
UN number	UN1133			
Proper shipping name	Adhesives			
Hazard class	3			
Packing group	11			
Additional information:				
Special provisions	149, B52, IB2, T4, TP1, TP8			
Basic shipping requireme				
Labels required	3			
Additional information:	0			
	150			
Packaging exceptions Packaging non bulk	173			
Packaging bulk	242			
ERG number	128			
	120			
DOT				
Packages less than 83 lbs				
Basic shipping requirements:				
UN number	UN1133			
Proper shipping name	Adhesives			
Hazard class	3			
Packing group	11			
Additional information:				
Special provisions	149, B52, IB2, T4, TP1, TP8			
Basic shipping requireme				
Labels required	3			
Additional information:				
Packaging exceptions	150			
Packaging non bulk	173			
Packaging bulk	242			
ERG number	128			
FLAMMABLE	FLAMMABLE			
2	2			
DOT	DOT			
DOT	DOT			
	Packages less than 83 lbs			
	IDS			

15. Regulatory Information

US federal regulations

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: De minimis concentration 1.0 %

Hexane (CAS 110-54-3)

Toluene (CAS 108-88-3) Xylenes (o-, m-, p- isom	ers) (CAS 1330-20-7)	1.0 % 1.0 %		
US EPCRA (SARA Title III)	Section 313 - Toxic Chemica	II: Listed substance		
Hexane (CAS 110-54-3) Toluene (CAS 108-88-3) Xylenes (o-, m-, p- isomers) (CAS 1330-20-7)		Listed. Listed. Listed.		
CERCLA (Superfund) reportabl	e quantity			
Toluene: 1000.0000 Hexane: 5000.0000 Xylenes (o-, m-, p- isomers):				
Superfund Amendments and R	eauthorization 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	No			
Section 311 hazardous chemical	No			
Inventory status				
Country(s) or region	Inventory name		On inventory (yes/no)*	
Australia	Australian Inventory of Che	mical 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 Yes Substances (EINECS)			
Europe	European List of Notified Chemical Substances (ELINCS) No			
Japan	Inventory of Existing and New Chemical Substances (ENCS) Yes			
Korea	Existing Chemicals List (EC	CL)	Yes	
New Zealand	New Zealand Inventory		No	
Philippines	Philippine Inventory of Cher (PICCS)	micals and Chemical Substances	Yes	
United States & Puerto Rico	Toxic Substances Control A	Act (TSCA) Inventory	Yes	
*A "Yes" indicates that all compo	onents of this product comply with	the inventory requirements administered by the go	overning country(s)	
State regulations	WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.			
-	65 - CRT: Listed date/Devel			
Toluene (CAS 108-88-3) US - California Proposition) 65 - CRT: Listed date/Femal	Listed: January 1, 1991 Developmental t le reproductive toxin	toxin.	
Toluene (CAS 108-88-3) US - New Jersey Communi) ty RTK (EHS Survey): Repor	Listed: August 7, 2009 Female reproduc table threshold	tive toxin.	
Hexane (CAS 110-54-3) Toluene (CAS 108-88-3) Xylenes (o-, m-, p- isom)	500 LBS 500 LBS 500 LBS		
Hexane (CAS 110-54-3)		Listed.		
Toluene (CAS 10-54-3) Toluene (CAS 108-88-3) Xylenes (o-, m-, p- isom)	Listed. Listed. Listed.		
16. Other Information				
Recommended restrictions	Workers (and your custome	ers or users in the case of resale) should be in	nformed of the potential	

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

HMIS ratings

NFPA ratings

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



Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The manufacturer expressly does not make any representations, warranties, or guarantees as to its accuracy, reliability or completeness nor assumes any liability, for its use. It is the user's responsibility to verify the suitability and completeness of such information for each particular use.

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