

## COTE

## MATERIAL SAFETY DATA SHEET CEMENT

## PRODUCT AND COMPANY IDENTIFICATION

TRADE NAME CEMENT

PRODUCT USE Product number Contact Adhesive MC5H-2471

P.O. Box 538 8200 Ridgefield Road Crystal Lake, IL 60039-0538 Tel: (815) 459-1250 Fax: (815) 459-1955 Chemtool Incorporated

SUPPLIER

**EMERGENCY TELEPHONE** 

INFOTRAC U.S. and Canada - (800) 535-5053 Outside the U.S. and Canada - +01-352-323-3500

2010-06-22

\*Date of last issue

# COMPOSITION AND INFORMATION ON INGREDIENTS

This chemical(s) is hazardous according to OSHAMMINIS criteria	*TALC (Mg3H2(SiO3)4)	ROSIN	ZINC OXIDE (ZnO)	MAGNESIUM OXIDE (MgO)	"PHENOL, 2,6-BIS(1,1-DIMETHYLETHYL)-4-METHYL-	*BENZENE, METHYL- (COMMON NAME: TOLUENE)	*ACETONE	*BUTANONE, 2- (COMMON NAME: METHYL ETHYL KETONE)	HEXANE	INGREDIENT NAME	
	14807-96-6	8050-09-7	1314-13-2	1309-48-4	128-37-0	108-88-3	67-64-1	78-93-3	110-54-3	CAS No.	
	<0-0.5 %	0.2-1 %	0.2-1 %	0.5-1.5 %	1-5%	10-20 %	10-20 %	15-30 %	20-40 %	WEIGHT	

### COMPOSITION COMMENTS

Refer to section eight for exposure limits on ingredients.
Chemical ingredients not regulated by OSHA, SARA, state or federal agencies are treated confidentially.

## HAZARDS IDENTIFICATION

#### **EMERGENCY OVERVIEW**

Highly flammable liquid. Irritating to eyes and skin. Harmful, danger of serious damage to health by prolonged exposure through inhalation. Possible risk of impaired fertility.

No known information.

SENSITIZATION

\*CARCINOGENICITY IARC-1: CAS# 71-43-2, BENZENE <100ppm, CAS# 50-00-0, FORMALDEHYDE <10ppm

TERATOGENICITY At very high levels of n-hexane in air (1,000-10,000 ppm), signs of damage to sperm-forming cells in male rats occurred. Damage to the lungs occurred in rabbits and

known if these effects would occur in people. It is not known if exposure to n-hexane can affect fertility in people. Experiments done with animals that were fed or breathed in mice. People have rarely been exposed to these high levels of n-hexane, so it is not

n-hexane did not show any effect on fertility

**HEALTH WARNINGS** 

INHALATION. Repeated severe exposures or steady prolonged exposure to solvents may cause permanent injury. SKIN CONTACT. Slightly irritating. Repeated or prolonged contact can result in drying of the skin. The product/chemical has a defatting effect on the skin. EYE CONTACT. Strongly irritating. INGESTION. Can cause stomach ache and

vomiting. Can cause internal injury.

ROUTE OF ENTRY Inhalation. Ingestion. Skin and/or eye contact. Skin absorption

## FIRST AID MEASURES

INHALATION Remove victim immediately from source of exposure. When breathing is difficult, properly trained personnel may assist affected person by administering 100% oxygen. If

breathing stops, provide artificial respiration. Get medical attention.

Important! Immediately rinse with water for at least 15 minutes. Get medical attention if

any discomfort continues.

Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical

SKIN

INGESTION

EYES

attention if irritation persists after washing.

DO NOT induce vomiting. Get medical attention immediately. Drink large amounts of water. Do not give victim anything to drink if he is unconscious.

#### CI FIRE FIGHTING MEASURES

FLASH POINT (°C) -21C (-7F) TCC (Tag closed cup)

FLAMMABILITY LIMIT - LOWER(%) N D

FLAMMABILITY LIMIT - UPPER(%) ND

EXTINGUISHING MEDIA Use: Alcohol resistant foam. Carbon dioxide (CO2). Dry chemicals, sand, dolomite etc

SPECIAL FIRE FIGHTING Use water to keep fire exposed containers cool and disperse vapors. Water spray may be used to flush spills away from exposures and dilute spills to non-flammable mixtures Avoid water in straight hose stream; will scatter and spread fire. Keep run-off water out

of sewers and water sources. Dike for water control

**UNUSUAL FIRE & EXPLOSION** container explosion in fire Vapors may ignite. Volume and pressure increases strongly when heated. Risk of

\*HAZARDOUS COMBUSTION Carbon dioxide (CO2). Carbon monoxide (CO). Hydrogen chloride (HCl). Oxides of Nitrogen.

PRODUCTS

HAZARDS

PROCEDURES

2/8

PROTECTIVE MEASURES IN CASE OF FIRE

Firefighters exposed to combustion gases/decomposition products should use a respiratory protective device.

## **ACCIDENTAL RELEASE MEASURES**

PERSONAL PRECAUTIONS

Minimize skin contact. Avoid breathing vapors. Wear an appropriate respirator if exposure exceeds recommended guidelines. Remove sources of ignition.

ENVIRONMENT PRECAUTIONS TO PROTECT THE

Keep product out of sewers and watercourses by diking or impounding. Advise authorities if product has entered or may enter sewers, watercourses or extensive land areas. Assure conformity with applicable government regulations.

SPILL CLEAN-UP PROCEDURES

area with water. Do not let washing down water contaminate ponds or waterways. Carefully collect spilled material in closed containers and leave for disposal according to local regulations. Provide good ventilation. Use appropriate protective clothing. Rinse

## HANDLING AND STORAGE

HANDLING PRECAUTIONS

Ventilate well, avoid breathing vapors. Use approved respirator if air contamination is above accepted level. Do not use in confined spaces without adequate ventilation and/or respirator. Avoid spilling, skin and eye contact. Keep away from heat, sparks and open flame. Eye wash and emergency shower must be available at the work place.

STORAGE PRECAUTIONS

materials Keep away from heat, sparks and open flame. Store separated from: Acids. Oxidizing

STORAGE CRITERIA

Flammable liquid storage

# **EXPOSURE CONTROLS AND PERSONAL PROTECTION**

(resp)	2 mg/m3 **A4 (e) (resp)			ACGIH	
West models				OSHA	TALC (Mg3H2(SiO3)4)
10 mg/m3 (resp)				ACGIH	
	5 mg/m3 (resp)		15 mg/m3 (total)	OSHA	ZINC OXIDE (ZnO)
			10 mg/m3	HSOIN	
2 mg/m3 (ihl)**A4 (Vapor and aerosol)	2 mg/m3 (ihl)**A4			ACGIH	
NE	N/E			OSHA	PHENOL, 2,6-BIS(1,1-DIMETHYLETHYL)-4-METHYL- OSHA
	3	150 ppm	100 ppm	HSOIN	
		**A4	50 ppm (skin)	ACGIH	a.
		300 ppm (ceil)	200 ppm	OSHA	BENZENE, METHYL- (COMMON NAME: TOLUENE)
		NE	250 ppm	NIOSH	
1782 mg/m3	1188 mg/m3	750 ppm	500 ppm	ACGIH	
	2400 mg/m3	NE	1000 ppm	OSHA	ACETONE
The state of the s			200 ppm (skin)	MAK.	
885 mg/m3	590 mg/m3	300 ppm	200 ppm	ACGIH	
	ogu mg/mo		Soo ppiii	9	KETONE)
			50 ppm	NIOSH	RITANONE 2 (COMMON NAME: METHYL ETHYL
	176 mg/m3		50 ppm (skin)	ACGIH	
	1800 mg/m3		500 ppm	OSHA	HEXANE
STEL	TWA	STEL	TWA	STD	COMPONENT

HSOIN 2 mg/m3 (resp.

INGREDIENT COMMENTS

\*\*ACGIH A4: Not Classifiable as a Human Carcinogen.

PROTECTIVE EQUIPMENT





**ENGINEERING CONTROLS** 

VENTILATION

RESPIRATORS

Use engineering controls to reduce air contamination to permissible exposure level.

air contamination exceeds acceptable level. No specific ventilation requirements noted, but forced ventilation may still be required if

No specific recommendation made, but respiratory protection may still be required under exceptional circumstances when excessive air contamination exists.

PROTECTIVE GLOVES Chemical resistant gloves required for prolonged or repeated contact. Use protective gloves made of: Neoprene, nitrile, polyethylene or PVC.

EYE PROTECTION Wear splash-proof eye goggles to prevent any possibility of eye contact

PROTECTIVE CLOTHING Wear appropriate clothing to prevent repeated or prolonged skin contact

HYGIENIC WORK PRACTICES Wash at the end of each work shift and before eating, smoking and using the toilet.

## PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE/PHYSICAL STATE Liquid.

ODOR Solvent

SOLUBILITY DESCRIPTION Insoluble in water.

DENSITY

VAPOR DENSITY (air=1) > 1.0

0.80

Temperature (°C)

15.6 (60°F)

**EVAPORATION RATE** VAPOR PRESSURE < 1.0 N Reference Temperature (°C)

BuAc=1

PH-VALUE, CONC. SOLUTION NA

#### 70. STABILITY AND REACTIVITY

STABILITY Normally stable.

CONDITIONS TO AVOID Avoid heat, flames and other sources of ignition. Avoid contact with oxidizers or reducing agents.

HAZARDOUS POLYMERIZATION Will not polymerize

POLYMERIZATION DESCRIPTION

Not relevant

HAZARDOUS DECOMPOSITION PRODUCTS

Hydrogen chloride (HCI). Oxides of: Carbon

## TOXICOLOGICAL INFORMATION

## TOXICOLOGICAL INFORMATION

Repeated and prolonged overexposure to n-hexane has been associated with peripheral nerve tissue damage. Adverse effects include numbness, tingling, pain, and loss of muscle control in the extremities, disorientation, impaired vision and reflexes, decline in motor function and paralysis.

abuse situations. Long-term overexposure to toluene has been associated with impaired color vision. Also, long-term overexposure to toluene in occupational environments have been associated with hearing damage. associated with reproductive effects in experimental animals and in long-term chemical Prolonged or repeated overexposure to toluene, a component of this product, has been

#### COMPONENT

TOXICOLOGICAL DATA Chronic toxicity. WHMIS (Canada) D2A - R48/20

HEXANE

25000 mg/kg (oral rat)

48000 ppm/4h (inh-rat)

REPRODUCTION TOXICITY TOXIC DOSE - LD 50
TOXIC CONC. - LC 50

Toxic to Reproductive Health Category 3 in European Union

#### COMPONENT

## BUTANONE, 2- (COMMON NAME: METHYL ETHYL KETONE)

## TOXICOLOGICAL DATA Reproductive effects. WHMIS (Canada) D2A - R61

Irritating effects. WHMIS (Canada) Eye. D2B - R36

3400 mg/kg (oral rat)

2000 mg/l/4h (inh-rat)

TOXIC DOSE - LD 50
TOXIC CONC. - LC 50

REPRODUCTION TOXICITY Methyl ethyl ketone is embryotic and/or fetotoxic in animal. MEK detected in matemal milk in human. Embryo or Fetus:death ihl-rat TCLo=1000ppm - Developmental Abnormalities: ihl-rat TCLo=3000ppm/6H - Musculoskeletal abnormalities ihl-rat TCLo=

1000ppm.

#### COMPONENT

## ACETONE

TOXICOLOGICAL DATA Irritating effects. WHMIS (Canada) Eye. D2B - R36

5800 mg/kg (oral rat)

2400 mg/kg (skn rbt) 20000 mg/kg (oral rat)

**TOXIC DOSE - LD 50 SKIN** 120 mg/l (inh-rat)

TOXIC CONC. - LC 50

**TOXIC DOSE - LD 50** TOXIC DOSE - LD 50

#### TOXICOLOGICAL DATA COMPONENT

## BENZENE, METHYL- (COMMON NAME: TOLUENE)

Reproductive effects. WHMIS (Canada) D2A - R63

Corrosive effects. WHMIS (Canada) Skin. D2B - R38

5000 mg/kg (oral rat)

TOXIC DOSE - LD 50
TOXIC CONC. - LC 50

CARCINOGENICITY

designation: Not classifiable as to human carcinogenicity IARC-3 designation: Not classifiable as to Carcinogenicity to Humans. EPA-D

MAGNESIUM OXIDE (MgO)

COMPONENT

#### COMPONENT

COMPONENT TALC (Mg3H2(SiO3)4)

TOXICOLOGICAL DATA Chronic toxicity. WHMIS (Canada) Inhalation. D2A - R49/20

Chronic toxicity. TCLo Inhalation. Rat. 6 mg/m3 csst.qc.ca

TOXIC DOSE - LD 50
TOXIC CONC. - LC 50
CARCINOGENICITY No Information Available (NIA) No Information Available (NIA).

IARC-3 designation: Not classifiable as to Carcinogenicity to Humans. MAK-3 designation: Substances which cause concern that they could be carcinogenic for man.

## **ECOLOGICAL INFORMATION**

**ECOLOGICAL INFORMATION** No data on possible environmental effects have been found

COMPONENT MAGNESIUM OXIDE (MgO)

COMPONENT ROSIN

COMPONENT TALC (Mg3H2(SiO3)4)

#### 13 **DISPOSAL CONSIDERATIONS**

DISPOSAL METHODS Confirm disposal procedures with environmental engineer and local regulations.

D001 Ignitible

WASTE CLASSIFICATION

## TRANSPORT INFORMATION

DOT PROPER SHIPPING NAME Consumer Commodity

DOT HAZARD CLASS ORM-D (Other Regulated Material D).

LABEL FOR TRANSPORT



UN1133

UN No. SEA

IMDG CLASS ω

IMDG PACK GR SEA TRANSPORT NOTES

UN No., AIR Adhesives

UN1133

AIR TRANSPORT NOTES AIR PACK GR ICAO CLASS = w Adhesives

#### 5 REGULATORY INFORMATION

### US FEDERAL REGULATIONS

See Section 2 for Additional Information	TALC (Mg3H2(SiO3)4)	ROSIN	ZINC OXIDE (ZnO)	MAGNESIUM OXIDE (MgO)	PHENOL, 2,6-BIS(1,1-DIMETHYLETHYL)-4-METHYL-	BENZENE, METHYL- (COMMON NAME: TOLUENE)	ACETONE	BUTANONE, 2- (COMMON NAME: METHYL ETHYL KETONE)	HEXANE	COMPONENT
	No	No	No	N <sub>O</sub>	No	No	No	No	No	SARA 302
	No	No	*	No	No	1 000 lbs	5 000 lbs	5 000 lbs	1 lb (air)	CERCLA
	No.	No	N982 - Zn	No .	No	Yes	N <sub>o</sub>	Yes	Yes	SARA 313

#### REGULATORY STATUS

\*\*\* Indicates that no RQ is assigned to this generic or broad class, although the class is a CERCLA hazardous substance. See 50 Federal Register 13456 (April 4, 1985). Values in Section 313 column represent Category Codes for reporting under Section 313.

#### **CLEAN AIR ACT**

### SARA HAZARD CATEGORIES

Acute Chronic Fire

ACETONE BENZENE, METHYL- (COMMON NAME: TOLUENE) ZINC OXIDE (ZnO)	COMPONENT BUTANONE, 2- (COMMON NAME: METHYL ETHYL KETONE)	US STATE REGULATIONS
ZD	No CA	EGULATIO
Yes	MA	S
ra <sup>ell</sup>	7	
	M Z	
Yes Yes	Z	
모 모 모	PA RI	
Yes	22	

### STATE REGULATORY STATUS

CALIFORNIA PROPOSITION 65: This product may contain the following chemical(s) considered by the State of California's Safe Drinking Water and Toxic Enforcement Act of 1986 as causing cancer or reproductive toxicity, and for which warnings are now required

Toluene, developmental hazard, CAS # 108-88-3, 10-20%

Lead, <1ppm

Cadmium, <1ppm

Formaldehyde, cancer hazard, CAS # 50-00-0 <10 ppm
Benzene, CAS # 71-43-2, <100ppm
PENNSYLVANIA RIGHT-TO-KNOW: This product contains the following chemicals that the state of Pennsylvania has identified as Special Hazardous Substances (SHS), Environmental Hazards (EH), or both (ESHS). The PA regulations require that the MSDS identify all SHS or EH chemicals by chemical name, common name, and CAS

Number if they comprise 0.01% or more.

2-Butanone, Environmental Hazard, CAS# 78-93-3

Toluene, Environmental Hazard, CAS # 108-88-3

Zinc compounds regulated under CERCLA and SARA 313, Environmental Hazard

# WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM - WHMIS

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

LABEL(S) FOR SUPPLY





CLASSIFICATION

B2 - Flammable Liquids
D2A - Very Irritating and/or Very Chronically Toxic Materials
D2B - Irritating and/or Chronically Toxic Materials

R-11 Highly flammable.
R-22 Harmful if swallowed

\*Risk phrases

R-23 Toxic by inhalation.
R-25 Toxic if swallowed.

inhalation R-36/38 Irritating to eyes and skin. R-48/20 Harmful, danger of serious damage to health by prolonged exposure through

G.	GLOBAL INVE	VENTORIES						
COMPONENT	CAN	SU	EU	AUS	JAP	KOR	PHLP	CHN
MAGNESIUM OXIDE (MgO) DSL	DSL	Yes	EINECS	Yes	Yes			o
ZINC OXIDE (ZnO)	NPRI	Yes		Yes			Yes	Yes
ROSIN	Yes	Yes		N <sub>O</sub>				0
TALC (Mg3H2(SiO3)4)	DSL	Yes		Yes				N <sub>O</sub>
BUTANONE, 2- (COMMON NAME: METHYL ETHYL	DSL	Yes	<b>EINECS</b>	Yes		Yes	Yes	Yes
ACETONE)	DSL	Yes		Yes				Yes
E, METHYL- (COMMON NAME: TOLUENE)	DSL	Yes	EINECS	Yes	PRTR1			Yes
3,6-BIS(1,1-DIMETHYLETHYL)-4-METHYL-	DSL	Yes			PRTR1 Yes		Yes	Yes
	DSL	Yes	EINECS	Yes	Yes	Yes	Yes	Yes

IPPEZZEJRUZO

CANADA CEPA: All components of this product comply with new substance notification requirements under the Canadian Environmental Protection Act (CEPA).

\*USA (TSCA) All components in this product are listed on the US Toxic Substances Control Act (TSCA) Inventory or are exempt from TSCA Inventory requirements.

#### 6 OTHER INFORMATION

### NFPA-HMIS HAZARD RATING

Temporary incapacitation, injury (2) - HMIS/NFPA

HEALTH

FLAMMABILITY

Ignites easily (3) - HMIS/NFPA

REACTIVITY

Normally Stable (0) - HMIS/NFPA

\*NPCA HMIS HAZARD INDEX

Moderate: Moderately Toxic - May be harmful if inhaled or absorbed (2)

\*NPCA HMIS FLAMMABILITY INDEX

PERSONAL PROTECTION INDEX G - Safety Eyewear, Gloves and Vapor Respirator

Ignites easily (3)

\*REVISION COMMENTS \* Information revised since previous MSDS version. Section 5: Flash Point Section 15: US Regulatory Status. Section 15: Risk Phrases Section 15: WHMIS Section 2: Percentage Composition

\*PREPARED BY TARIFF CODE

3506.10.0000, 240ml can

James P. McBriarty

Maria Maka

\*REVISION No.

\*Replacement of MSDS generated

2008-11-14

DISCLAIMER

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While the information and recommendations set forth herein are believed to be accurate as of the date thereof, the company makes no warranty with respect thereto and disclaims all liability from reliance therein.

\* Information revised since previous MSDS version

PRINTING DATE

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