



# MATERIAL SAFETY DATA SHEET

## CILBOND 12E

### 1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

<b>PRODUCT NAME</b>	CILBOND 12E
<b>PRODUCT NO.</b>	CB12E-5, CB12E-200, CB12E-190, CB12E-25TH, CB12E-25, CB12E-10, CB12E-5TH, CB12EMASTER
<b>PRODUCT USE</b>	Adhesive
<b>SUPPLIER</b>	Chemical Innovations Ltd 217 Walton Summit Road Walton Summit Centre Bamber Bridge Preston Lancashire PR5 8AQ United Kingdom T +44 (0)1772 322888 F +44 (0)1772 315853 Email: sales@polycil.co.uk
<b>IDENTIFICATION No.</b>	1133

### 2 HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

WARNING! Highly Flammable. Irritating to skin and eyes. Possible risk of harm to the unborn child. Harmful: danger of serious damage to health by prolonged exposure through inhalation. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

#### ENVIRONMENT

The product contains a substance which may cause long term adverse effects in the aquatic environment.

#### PHYSICAL AND CHEMICAL HAZARDS

The product is highly flammable, and explosive vapors/air mixtures may be formed even at normal room temperatures.

#### POTENTIAL HEALTH EFFECTS

##### INHALATION

Harmful by inhalation. High concentrations of vapors may irritate respiratory system and lead to headache, fatigue, nausea and vomiting. Vapor from this chemical can be hazardous when inhaled.

##### INGESTION

May cause stomach pain or vomiting.

##### SKIN CONTACT

Acts as a defatting agent on skin. May cause cracking of skin, and eczema.

##### EYE CONTACT

Irritation of eyes and mucous membranes.

### 3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content %
BUTANONE	201-159-0	78-93-3	5-10%

# CILBOND 12E

ISOBUTYL METHYL KETONE	203-550-1	108-10-1	10-20%
MALEIC ANHYDRIDE	203-571-6	108-31-6	< 1%
SELENIUM	231-957-4	7782-49-2	< 1%
SOLVENT NAPHTHA (PETROLEUM), LIGHT AROMATIC	265-199-0	64742-95-6	5-10%
TOLUENE	203-625-9	108-88-3	30-40%
XYLENE	215-535-7	1330-20-7	5-10%
ZINC OXIDE	215-222-5	1314-13-2	1-5%

## 4 FIRST-AID MEASURES

### GENERAL INFORMATION

Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.

### INHALATION

Move the exposed person to fresh air at once. For breathing difficulties oxygen may be necessary. If breathing stops, provide artificial respiration. Keep the affected person warm and at rest. Get prompt medical attention.

### INGESTION

DO NOT INDUCE VOMITING! NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Remove victim immediately from source of exposure. Immediately rinse mouth and provide fresh air. Get medical attention immediately! NOTE! Keep affected person away from heat, sparks and flames!

### SKIN CONTACT

Remove affected person from source of contamination. Wash the skin immediately with soap and water. Get medical attention if irritation persists after washing.

### EYE CONTACT

Remove victim immediately from source of exposure. Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Contact physician if irritation persists.

## 5 FIRE-FIGHTING MEASURES

### EXTINGUISHING MEDIA

Fire can be extinguished using: Foam. Dry chemicals, sand, dolomite etc.

### SPECIAL FIRE FIGHTING PROCEDURES

Move container from fire area if it can be done without risk. Containers close to fire should be removed or cooled with water. Cool containers exposed to flames with water until well after the fire is out. Keep run-off water out of sewers and water sources. Dike for water control.

### UNUSUAL FIRE & EXPLOSION HAZARDS

HIGHLY FLAMMABLE! Vapors are heavier than air and may spread near ground to sources of ignition.

### PROTECTIVE MEASURES IN FIRE

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

**AUTO IGNITION TEMPERATURE** >250

(°C)

**FLASH POINT (°C)** 2 Method CC (Closed cup).

## 6 ACCIDENTAL RELEASE MEASURES

### PERSONAL PRECAUTIONS

Wear protective clothing as described in Section 8 of this material safety data sheet.

# CILBOND 12E

## ENVIRONMENTAL PRECAUTIONS

Do not discharge into drains, water courses or onto the ground.

## SPILL CLEAN UP METHODS

Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Stop leak if possible without risk. Provide ventilation and confine spill. Do not allow runoff to sewer. Absorb in vermiculite, dry sand or earth and place into containers.

## 7 HANDLING AND STORAGE

### HANDLING

Static electricity and formation of sparks must be prevented. Keep away from heat, sparks and open flame. Use explosion proof electric equipment. Avoid spilling, skin and eye contact. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level.

### STORAGE

Keep in original container. Store in tightly closed original container in a dry, cool and well-ventilated place.

### STORAGE CLASS

Flammable liquid storage.

## 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

COMPONENT	STD	TWA (8-hrs)		STEL (15 min)		Notes
BUTANONE	ACGIH	200 ppm		300 ppm		
BUTANONE	PEL	200 ppm	590 mg/m3			
TOLUENE	ACGIH	20 ppm				A4
TOLUENE	PEL	200 ppm		300 ppm		
XYLENE	ACGIH	100 ppm		150 ppm		A4
XYLENE	PEL	100 ppm	435 mg/m3			
ZINC OXIDE	ACGIH		2 mg/m3		10 mg/m3	
ZINC OXIDE	PEL		5 mg/m3			
COMPONENT						IDLH
BUTANONE						3000 ppm
TOLUENE						500 ppm
XYLENE						900 ppm
ZINC OXIDE						500 mg/m3

ACGIH=American Conference of Governmental Industrial Hygienists.

A4: Not Classifiable as a Human Carcinogen.

## PROTECTIVE EQUIPMENT



# CILBOND 12E

## RESPIRATORY EQUIPMENT

No specific recommendation made, but respiratory protection must be used if the general level exceeds the Recommended Occupational Exposure Limit

## HAND PROTECTION

Use protective gloves made of: Rubber, neoprene or PVC.

## EYE PROTECTION

Wear approved safety goggles.

## OTHER PROTECTION

Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapor contact.

## HYGIENE MEASURES

DO NOT SMOKE IN WORK AREA! Wash at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.

## 9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Liquid
COLOR	Gray
ODOR	Characteristic of solvents
SOLUBILITY	Miscible with: Organic solvents.
BOILING POINT (°C)	>78 @ 760 mm Hg
MELTING POINT (°C)	<-80
RELATIVE DENSITY	0.95 @ 25°C
VAPOR DENSITY (air=1)	>1
VAPOR PRESSURE	<50 mm Hg @ 25°C
EVAPORATION RATE	0.8 Ref BuAc=1
FLASH POINT (°C)	2 Method CC (Closed cup).

## 10 STABILITY AND REACTIVITY

### STABILITY

Stable under normal temperature conditions and recommended use.

### CONDITIONS TO AVOID

Avoid heat. Avoid contact with oxidizers or reducing agents.

### HAZARDOUS DECOMPOSITION PRODUCTS

In case of fire, toxic gases (CO, CO<sub>2</sub>, NO<sub>x</sub>) may be formed.

## 11 TOXICOLOGICAL INFORMATION

### TOXICOLOGICAL INFORMATION

This material is harmful

## 12 ECOLOGICAL INFORMATION

### ECOTOXICITY

The product contains a substance which may cause long term adverse effects in the aquatic environment.

## 13 DISPOSAL CONSIDERATIONS

### DISPOSAL METHODS

Dispose of waste and residues in accordance with local authority requirements.

# CILBOND 12E

## 14 TRANSPORT INFORMATION



<b>DOT PROPER SHIPPING NAME</b>	ADHESIVE (solvent naphtha)
<b>TDG SHIPPING NAME</b>	ADHESIVE (solvent naphtha)
<b>IDENTIFICATION No.</b>	1133
<b>TUNNEL RESTRICTION CODE</b>	(D/E)
<b>CEVIC TEC(R) NO.</b>	30GF1-I+II
<b>UN NO. SEA</b>	1133
<b>IMDG CLASS</b>	3
<b>IMDG PACK GR.</b>	II
<b>EMS</b>	F-E, S-D
<b>MARINE POLLUTANT</b>	Yes
<b>UN NO. AIR</b>	1133
<b>ICAO CLASS</b>	3
<b>AIR PACK GR.</b>	II

## 15 REGULATORY INFORMATION

### INVENTORIES

COMPONENT	CAN	US	EU	AUS	JAP	KOR	CHN	PHLP
SELENIUM	DSL	Yes.	No.	No.	No.	No.	No.	No.
TOLUENE	DSL	Yes.	No.	No.	No.	No.	No.	No.
XYLENE	DSL	Yes.	No.	No.	No.	No.	No.	No.
BUTANONE	DSL	Yes.	No.	No.	No.	No.	No.	No.
ISOBUTYL METHYL KETONE	DSL	Yes.	No.	No.	No.	No.	No.	No.
MALEIC ANHYDRIDE	DSL	Yes.	No.	No.	No.	No.	No.	No.
ZINC OXIDE	DSL	Yes.	No.	No.	No.	No.	No.	No.
SOLVENT NAPHTHA (PETROLEUM), LIGHT AROMATIC	DSL	Yes.	No.	No.	No.	No.	No.	No.

# CILBOND 12E

COMPONENT	TSCA 12(b) Export Notification
TOLUENE	No.
XYLENE	No.
BUTANONE	No.
ZINC OXIDE	No.

## US FEDERAL REGULATIONS

COMPONENT	SARA 302-TPQ	CERCLA-RQ	SARA 313
TOLUENE	Not Listed	1 000 lbs	1.0 %
XYLENE	Not Listed	100 lbs	1.0 %
BUTANONE	Not Listed	5 000 lbs	1.0 %
ZINC OXIDE	Not Listed	Not Listed	No.

## CLEAN AIR ACT

COMPONENT	CAA Accidental Release Prevention
TOLUENE	Not Listed
XYLENE	Not Listed
BUTANONE	Not Listed
ZINC OXIDE	Not Listed

## US STATE REGULATIONS

COMPONENT	CAS	CA	FL	MA	MN	NJ	PA	RI
TOLUENE	108-88-3	R	Yes.	Yes.	Yes.	Yes.	Yes.	Yes.
XYLENE	1330-20-7	Not Listed	Yes.	Yes.	Yes.	Yes.	Yes.	Yes.
BUTANONE	78-93-3	Not Listed	Yes.	Yes.	Yes.	Yes.	Yes.	Yes.
ZINC OXIDE	1314-13-2	Not Listed	Yes.	Yes.	Yes.	Yes.	Yes.	Yes.

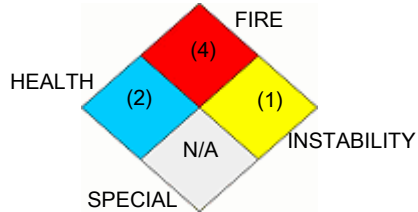
## 16 OTHER INFORMATION

### HAZARDOUS MATERIAL INFORMATION SYSTEM (HMIS)

HEALTH	2
FLAMMABILITY	4
PHYSICAL	1
PERSONAL PROTECTION	H

# CILBOND 12E

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)



**INFORMATION SOURCES**

N/A

**SDS NO.**

MMFF Issue 1 Rev 3

**DISCLAIMER**

*This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his o*