# Co-515 DLC®

### 1: Identification

Product identifier: Co-515 DLC® Other means of identification: Chemical mixture

Supplier:

NATROCHEM, Inc. P.O. Box 1205

Savannah, GA 31402-1205

912-236-4464

Recommended use: Rubber crosslinking agent

Restrictions on use: Not applicable.

CHEMTREC (USA) 800-424-9300 **Emergency phone number:** CHEMTREC (Int'l) 202-483-7616

## 2: Hazard(s) identification

**GHS** classification: Skin sensitization - Category 1

Chronic aquatic toxicity – Category 2

Carcinogenicity - Category 2

### **GHS** label elements

Signal word:

Symbol(s):







May cause an allergic skin reaction **Hazard statements:** 

Toxic to aquatic life with long lasting effects

Suspected of causing cancer.

Hazards not otherwise

classified:

May form combustible dust concentrations in the air.

**Precautionary statements:** 

**Prevention:** Avoid breathing dust/vapours.

Do not get in eyes, on skin, or on clothing.

Do not eat, drink or smoke when using this product.

Avoid release to the environment.

Response: IF ON SKIN (or hair): Wash with plenty of soap and water.

IF INHALED: Remove person to fresh air and keep comfortable for

breathing.

IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses if present and easy to do – continue rinsing. IF exposed or concerned: Call a POISON CENTER/ doctor if you feel

unwell.

In case of fire: Use water spray, CO<sub>2</sub>, foam, or dry chemical to

extinguish.

**Storage:** Store in a dry place. Store in a closed container.

**Disposal:** Dispose of contents/container in accordance with applicable

regulations.

**Supplemental information:** Possible cross-sensitization with other acrylates and methacrylates.

## 3: Composition

Substance/mixture: Mixture

Ingredient	Synonyms	CAS number	Concentration (%)
2-propenoic acid, 2-methyl-, 2-	Trimethylolpropane	3290-92-4	55-65
ethyl-2-[[(2-methyl-1-oxo-2-	trimethacrylate, TMPTMA		
propenyl)oxy]methyl]-1,3-			
propanediyl ester			
2-propenoic acid, 2-ethyl-2-[[(1-	Trimethylolpropane	15625-89-5	0-10
oxo-2-propenyl)oxy]methyl]-	triacrylate, TMPTA		
1,3-propanediyl ester			
Benzeneamine, N-nitroso-N-	N-nitrosodiphenylamine	86-30-6	0-2
phenyl			
Calcium silicate		1344-95-2	26-30

Contains no detectable crystalline silica (detection limit <0.01% by weight)

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

### 4: First-aid measures

If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during or persists after use of this product, contact a POISON CONTROL CENTER, EMERGENCY ROOM, OR PHYSICIAN immediately; have SDS information available. Never give anything by mouth to an unconscious or convulsing person.

## **Description of necessary first aid measures**

**Eye contact:** Check for and remove any contact lenses. Immediately flush eyes

with running water for at least 15 minutes, keeping eyelids open.

Seek immediate medical attention.

**Inhalation:** Remove to fresh air. Keep person warm and at rest. If not

breathing, if breathing is irregular, or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.

**Skin contact:** Remove contaminated clothing and shoes. Wash skin thoroughly

with soap and water or use recognized skin cleanser. Do NOT use

solvents or thinners.

**Ingestion:** If swallowed, seek medical advice immediately and show this

container or label. Keep person warm and at rest. Do NOT induce

vomiting.

## Most important symptoms/effects, acute and delayed.

#### Potential acute health effects

**Eye contact:** No significant irritation expected other than possible mechanical

irritation.

**Inhalation:** Exposure to airborne concentrations above statutory or

recommended exposure limits may cause irritation of the nose,

throat, and lungs.

**Skin contact:** Prolonged or repeated contact may dry skin and cause irritation.

**Ingestion:** No known significant effects or critical hazards.

Over-exposure signs/symptoms

**Eye contact:** Adverse symptoms may include the following:

Irritation Redness

**Inhalation:** Adverse symptoms may include the following:

Coughing

Respiratory tract irritation

**Skin contact:** Adverse symptoms may include the following:

Dryness

**Ingestion:** No specific data.

Indication of immediate medical attention and special treatment needed, if necessary

**Notes to physician:** Treat symptomatically. Contact poison treatment specialist

immediately if large quantities have been ingested or inhaled.

**Specific treatments:** No specific treatment.

**Protection of first-aiders:** No action shall be taken involving any personal risk or without

suitable training.

See toxicological information (Section 11)

## 5: Fire-fighting measures

### **Extinguishing media**

Suitable extinguishing

Use water spray, CO<sub>2</sub>, foam, or dry chemical to extinguish.

media:

Unsuitable extinguishing

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

media:

Specific hazards arising from

the chemical:

Product forms a slippery surface when combined with water.

Hazardous thermal In the event of a fire, hazardous decomposition products may

**decomposition products:** include:

Carbon monoxide Carbon dioxide Acrylates Methacrylates Nitogen oxides

Other unidentified organic compounds

Special protective actions for

firefighters:

No action shall be taken involving any personal risk or without

proper training.

Special protective Firefighters: combusti

Firefighters and others who may be exposed to products of combustion should wear full firefighting turn out gear (full bunker gear) and self-contained breathing apparatus (SCBA) operated in pressure-demand mode (MSHA/NIOSH approved or equivalent).

### 6: Accidental release measures

### Personal precautions, protective equipment, and emergency procedures

**For non-emergency** Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Product forms slippery

surface when combined with water. No action shall be taken

involving any personal risk or without suitable training.

For emergency responders: If specialized clothing is required to deal with the spillage, take

note of any information in **Section 8** on suitable and unsuitable materials. See also the information immediately above in "For non-

emergency personnel".

**Environmental precautions:** Avoid release to sewers, waterways, soil, or air. Inform the

relevant authorities if the product has caused environmental

pollution (sewers, waterways, soil, or air).

### Methods and materials for containment and cleaning up

Small spill: Avoid generating dust. Vacuum or sweep up material and place in a

designated, labeled waste container.

Large spill: Avoid generating dust. Vacuum or sweep up material and place in a

designated, labeled waste container.

See Section 1 for emergency contact information.

See Section 8 for information on appropriate personal protective equipment.

See Section 13 for additional waste treatment information.

## 7: Handling and storage

## Precautions for safe handling

Protective measures: Put on appropriate personal protective equipment (see Section 8).

Advice on general Eating, drinking, and smoking should be prohibited in areas where occupational hygiene: this material is handled, stored, and processed. Workers should

wash hands and face before eating, drinking, and smoking. Remove contaminated clothing and protective equipment before entering eating areas. When transferring material into flammable solvents, use proper grounding to avoid electrical sparks. Avoid alteration of product properties before use. Calcining (which may result in crystalline silica formation) or mixing with additives may alter toxicological properties.

Conditions for safe storage, including any incompatibilities:

See also **Section 8** for additional information on hygiene measures. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool, and well-ventilated area away from incompatible materials (see **Section 10**) and food and drink. Keep container tightly closed and sealed until ready for use. Do not store in unlabeled containers. Incompatible materials include: strong oxidizing agents, strong reducing agents, free radical generators, inert gas, oxygen scavengers, peroxides.

## 8: Exposure controls/personal protection

### **Control parameters**

**Occupational exposure limits** 

occupational exposure mints					
Ingredient	OSHA PEL	ACGIH TLV	NIOSH REL		
2-propenoic acid, 2-methyl-, 2-ethyl-2-[[(2-methyl-1-oxo- 2-propenyl)oxy]methyl]-1,3- propanediyl ester	1 mg/m <sup>3</sup> TWA	Not available.	Not available.		
2-propenoic acid, 2-ethyl-2- [[(1-oxo-2- propenyl)oxy]methyl]-1,3- propanediyl ester	1 mg/m <sup>3</sup> TWA	Not available.	Not available.		

Recommended monitoring procedures:

If this product contains ingredients with exposure limits, personal, workplace atmosphere, or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

Appropriate engineering controls:

Environmental exposure controls:

Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Emissions from ventilation or work process equipment should be checked to ensure that they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters, or engineering modifications to process equipment will be necessary to reduce emissions to acceptable levels.

### **Individual protection measures**

**Hygiene measures:** Wash hands, forearms, and face thoroughly after handling

chemical products, before eating, smoking, and using the lavatory, and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection:** Safety eyewear complying with an approved standard should be

used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases, or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: splash

goggles.

**Skin protection** 

**Hand protection:** Chemical-resistant, impervious gloves complying with an approved

standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. When handling hot material, wear heat-resistant gloves that are able to

withstand the temperature of molten product.

**Body protection:** Personal protective equipment for the body should be selected

based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Appropriate footwear and any additional skin protection measure

**Other skin protection:** Appropriate footwear and any additional skin protection measures

should be selected based on the task being performed and the risks involved and should be approved by a specialist before

handling this product.

**Respiratory protection:** Respirator selection must be based on known or anticipated

exposure levels, the hazards of the product and the safe working

limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, airpurifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

## 9: Physical and chemical properties

**Appearance** 

**Physical state:** Powder, solid, or granular solid.

Color: Tan to brown Odor: Acrylic-like. Odor threshold: Not available. pH: Not available. Melting/freezing point: Not available. **Boiling point and range:** Not available. Flash point: Not available. **Evaporation rate:** Not available. Flammability: Not available. Flammability or explosive Not available.

limits:

Vapor pressure: Not available. Vapor density: Not available. Relative density: Not available. Solubility: Not available. Partition coefficient: n-Not available.

octanol/water:

**Auto-ignition temperature:** Not available. **Decomposition temperature:** Not available. Viscosity: Not applicable.

## 10: Stability and reactivity

Reactivity: No specific test data related to reactivity available for this product

or its ingredients.

**Chemical stability:** This product is stable under normal and anticipated storage,

handling, and processing considtions; however, this material can

undergo hazardous polymerization.

Possibility of hazardous Hazardous polymerization may occur. Polymerization is exothermic

reactions: and can degenerate into an uncontrolled reaction.

Conditions to avoid: Avoid generating dust.

> This material polymerizes exothermically in the presence of heat, contamination, oxygen-free atmosphere, free radicals, peroxides,

and inhibitor depletion, liberating heat.

Avoid direct sunlight. Do NOT expose to UV light.

Refer to protective measures listed in Sections 7 and 8.

**Incompatible materials:** Reactive or incompatible with the following materials:

Acids

Oxidizing materials Strong alkalis

Strong reducing agents Free radical generators

Inery gas

Oxygen scavenger

Peroxides

Hazardous decomposition

products: include:

In the event of a fire, hazardous decomposition products may

Carbon monoxide Carbon dioxide Acrylates Methacrylates Nitogen oxides

Other unidentified organic compounds

## 11: Toxicological information

## Information on toxicological effects

#### **Acute toxicity**

**Conclusion/summary:** No known significant effects or critical hazards.

Ingredient	Result	Species	Dose	Exposure
2-propenoic acid, 2-	LD <sub>50</sub> dermal	Rabbit	>5000 mg/kg	-
methyl-, 2-ethyl-2-[[(2-	LC <sub>0</sub> inhalation	Rat	Saturated	8 h
methyl-1-oxo-2-			vapour	
propenyl)oxy]methyl]-				
1,3-propanediyl ester				
2-propenoic acid, 2-ethyl-				
2-[[(1-oxo-2-				
propenyl)oxy]methyl]-				
1,3-propanediyl ester				
2-propenoic acid, 2-	LD <sub>50</sub> dermal	Rabbit	5170 mg/kg	-
methyl-, 2-ethyl-2-[[(2-	LD <sub>50</sub> dermal	Rat	>2000 mg/kg	-
methyl-1-oxo-2-	LC <sub>0</sub> inhalation	Rat	>0.55mg/L	6 h
propenyl)oxy]methyl]-				
1,3-propanediyl ester				
2-propenoic acid, 2-ethyl-				
2-[[(1-oxo-2-				
propenyl)oxy]methyl]-				
1,3-propanediyl ester				
2-propenoic acid, 2-	LD <sub>50</sub> dermal	Rabbit	>7940 mg/kg	-
methyl-, 2-ethyl-2-[[(2-				
methyl-1-oxo-2-				
propenyl)oxy]methyl]-				
1,3-propanediyl ester				

### **Irritation/corrosion**

**Conclusion/summary** 

**Skin:** TMPTMA: Causes mild skin irritation – Rabbit, 4-6 h. Causes skin

irritation – Rabbit, 5 d repeated exposure.

TMPTA: Causes mild skin irritation – Rabbit, 4 h (Irritation index

2.2 - 3.8 / 8)

**Eyes:** TMPTMA: Causes mild eye irritation – Rabbit, 0-8.1/110

TMPTA: Causes serious eye irritation – Rabbit, 44/110 N-nitrosodiphenylamine: Causes mild eye irritation - Rabbit

No known significant effects or critical hazards.

Sensitization

**Respiratory:** 

**Conclusion/summary:** 

**Skin:** TMPTMA: Not a sensitizer – Guinea pig maxmisation test. Both

positive and negative responses have been recorded. Possible cross sensitization with other acrylates and methacrylates. TMPTA: May cause an allergic skin reaction, repeated skin exposure. Guinea pig – skin allergy was observed (strong

sensitizer).

**Respiratory:** 

No known significant effects or critical hazards.

**Mutagenicity:** 

Conclusion/summary:

TMPTMA: in vitro – No genetic changes were observed in laboratory tests using bacteria, yeast. Both positive and negative responses were observed in laboratory tests using animal cells, human cells. In vivo – No genetic changes were observed in laboratory tests using rats, mice.

TMPTA: in vitro – both positive and equivocal responses were observed in laboratory tests using bacteria. Genetic changes were observed in laboratory tests using animal cells. In vivo – No genetic changes were observed in laboratory tests using mice. N-nitrosodiphenylamine: in vitro – Both positive and negative changes were observed in laboratory tests using bacteria, animal cells. In vivo – No genetic changes were observed in laboratory tests using rats, mice. An equivocal response has been reported in

a test using fruit flies.

Carcinogenicity

**Conclusion/summary:** TMPTMA: Chronic dermal administration to mouse: no increase in

tumour incidence was reported.

N-nitrosodiphenylamine: Chronic dietary administration to mouse: no increase in tumour incidence was reported. Chronic dietary administration to rat: increase in tumour incidence was reported

(urinary bladder).

Classification

Ingredient	OSHA	IARC	NTP
N-nitrosodiphenylamine	1	3	-

Carcinogen classification code:

IARC: 1, 2A, 2B, 3, 4

NTP: [Known/Reasonably anticipated] to be a human carcinogen

OSHA: +

Not listed/regulated: -

Reproductive toxicity

**Conclusion/summary:** TMPTMA: Oral, rat, no toxicity to reproduction.

**Teratogenicity** 

**Conclusion/summary:** No known significant effects or critical hazards.

**Specific target organ toxicity (single exposure)** 

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

<u>Target organs</u> Contains material which may cause damage to the following

organs: upper respiratory tract, eyes.

**Aspiration hazard** 

Not available.

Information on the likely routes

Routes of entry anticipated: oral, dermal, inhalation.

of exposure:

Potential acute health effects

**Eye contact:** No significant irritation expected other than possible mechanical

irritation.

**Inhalation:** Exposure to airborne concentrations above statutory or

recommended exposure limits may cause irritation of the nose,

throat, and lungs.

**Skin contact:** Prolonged or repeated contact may dry skin and cause irritation.

**Ingestion:** No known significant effects or critical hazards.

### Symptoms related to the physical, chemical, and toxicological characteristics

**Eye contact:** Adverse symptoms may include the following:

Irritation

Redness

**Inhalation:** Adverse symptoms may include the following:

Coughing

Respiratory tract irritation

**Skin contact:** Adverse symptoms may include the following:

**Dryness** 

**Ingestion:** No specific data.

## Delayed and immediate effects and also chronic effects from short- and longterm exposure

#### **Conclusion/summary:**

### **Short-term exposure**

**Potential immediate** No significant irritation expected other than possible mechanical

effects irritation.

**Potential delayed effects** Prolonged or repeated contact may dry skin and cause irritation.

#### Long-term exposure

Potential immediate Repeated or prolonged inhalation of dust may lead to chronic

**effects** respiratory irritation.

Potential delayed effects Repeated or prolonged inhalation of dust may lead to chronic

respiratory irritation.

#### Potential chronic health effects

General:

No known significant effects or critical hazards.

No known significant effects or critical hazards.

Mutagenicity:
No known significant effects or critical hazards.

Teratogenicity:
No known significant effects or critical hazards.

## **Numerical measures of toxicity**

## **Acute toxicity estimates**

Oral ATE: > 5000 mg/kg

# 12: Ecological information

**Toxicity** 

Ingredient	Result	Species	Exposure
TMPTMA	LC50 2 mg/L	Fish – oncorhynchus mykiss	96 h
	EC50 9.22 mg/L	Daphnia – daphnia magna	48 h
ТМРТМА ТМРТА	EC50 1.11-3.88 mg/L	Algae – pseudokirchneriella subcapitata	72 h
	EC50 > 1000 mg/L NOEC 0.138 mg/L	Activated sludge Fish – pimephales promelas	3 h 32 d
	LL50 1.47 mg/L EC50 19.9 mg/L	Fish – <i>leuciscus idus</i> Daphnia – <i>daphnia magna</i>	96 h 48 h
TMPTA N-	EC50 4.86 mg/L	Algae – desmodesmus subspicatus	96 h
nitrosodiphenylamine	EC20 625 mg/L	Activated sludge	30 m
	LC50 5.8 mg/L	Fish – <i>lepomis</i> macrochirus	96 h
	EC50 7.8 mg/L	Daphnia – daphnia magna	48 h
N- nitrosodiphenylamine	ErC50 > 4 mg/L	Algae - raphidocelus subcapitata	72 h
	NOEC 0.075 mg/L	Daphnia – daphnia magna	21 d
	ErC10 2.2 mg/L	Algae - raphidocelus subcapitata	72 h

Persistence and degradability

Ingredient	Aquatic half-life	Photolysis	Biodegradability
TMPTMA	-	-	Not readily (29-53%,
			28 d)
TMPTA	-	-	Readily (86%, 28 d)
N-	-	-	Readily (98%, 7 d)
nitrosodiphenylamine			

**Bioaccumulative potential** 

Ingredient	LogPow	BCF	Potential
TMPTMA	2.7-4.2	-	-
TMPTA	0.67	-	-
N-	2.57-3.13	-	low
nitrosodiphenylamine			

### Mobility in soil

Soil/water partition coefficient (Koc):

Not available.

Other adverse effects:

No known significant effects or critical hazards.

## 13: Disposal considerations

**Disposal methods:** The generation of waste should be avoided or minimized wherever

possible. Disposal of this product, solutions, and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local

authority requirements.

Disposal should be in accordance with applicable regional, national, and local laws and regulations.

Refer to Sections 6, 7, and 8 for additional information on accidental release measures, handling and storage, and exposure controls.

## 14: Transport information

	DOT	IMDG	IATA
UN number	UN3077	UN3077	UN3077
UN proper shipping name	Environmentally	Environmentally	Environmentally
	hazardous substance,	hazardous substance,	hazardous substance,
	solid, n.o.s.	solid, n.o.s.	solid, n.o.s.
	(Propylidynetrimethyl	(Propylidynetrimethyl	(Propylidynetrimethyl
	trimethacrylate)	trimethacrylate)	trimethacrylate)
Transport hazard class(es)	9	9	9
Packing group	III	III	III
Environmental hazards	Yes	Yes	Yes
Marine pollutant substances	Yes	Yes	Yes
Additional information	-	-	-

**Special precautions for user:** 

**Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons

transporting the product know what to do in the event of an accident

or spillage.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code:

Not available.

## 15: Regulatory information

### **Inventory status**

United States inventory (TSCA

All components are listed or exempted.

8b):

Australia inventory (AICS):
Canada inventory (DSL):
China inventory (IECSC):
Europe inventory (REACH):

All components are listed or exempted.

**Japan inventory (ENCS):** Please contact your supplier for information on the inventory

status of this material.

**Korea inventory (KECI):** All components are listed or exempted. **New Zealand inventory** All components are listed or exempted.

(NZIoC):

#### **United States**

### **US Federal regulations:**

#### SARA Title III

#### **Section 302 – Extremely Hazardous Chemicals:**

The components in this product are either not SARA Section 302 regulated or are regulated but present in negligible concentrations.

#### **Section 311/312 – Hazard Categories:**

Reactivity hazard, acute health hazard, chronic health hazard.

#### Section 313 - Toxic Chemicals:

N-nitrosodiphenylamine (86-30-6), 1.0% de minimis, 25k lb mfring, 10k lb other

Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) – Reportable Quantity (RQ)

N-nitrosodiphenylamine (86-30-6): 100 lb

#### **US State regulations:**

8				
Ingredient	NJ RTK	MA RTK	PN RTK	CA Prop. 65
TMPTMA	-	-	Listed	-
ТМРТА	-	-	Listed	-
N-nitrosodiphenylamine	Listed	-	Listed	-
Benzene, -methyl	-	-	-	Listed

#### 16: Other information

### **Hazardous Material Identification System (USA)**

HEALTH	2
FLAMMABILITY	1
REACTIVITY	0
PERSONAL PROTECTION	

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on SDSs under 29 CFR 1901.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the Nation Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J.J.Keller 800-327-6868.

The customer is responsible for determining the PPE code for this material.

<sup>\* -</sup> chronic effects

### **Key to abbreviations:**

ATE Acute toxicity estimate
BCF Bioconcentration factor

GHS Globally Harmonized System of classification and labeling of chemicals

IATA International Air Transport Association

IBC Intermediate bulk container

IMDG International Maritime Dangerous Goods

LogPow Logarithm of the octanol/water partition coefficient

MARPOL 73/78 International convention for the Prevention of Pollution from Ships,

1973, as modified by the Protocol of 1978. (MARPOL = marine pollution)

UN United Nations

#### Disclaimer:

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