# CI 50 DLC®-A-74

### 1: Identification

**Product identifier:** CI 50 DLC®-A-74

Other means of identification: Hydrocarbon resin on silicon dioxide

Supplier:

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NATROCHEM, Inc. P.O. Box 1205

Savannah, GA 31402-1205

912-236-4464

**Recommended use:** Adhesives, coatings, rubber

**Restrictions on use:** Not applicable.

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

### 2: Hazard(s) identification

**GHS classification:** Specific target organ toxicity - Single exposure – Category 3

Specific target organ toxicity - Repeated exposure - Category 2

Aspiration hazard - Category 1

**GHS label elements** 

Signal word: DANGER Symbol(s):





**Hazard statements:** May be fatal if swallowed and enters airways

May cause respiratory irritation May cause drowsiness or dizziness

May cause damage to skin through prolonged or repeated

exposure

Hazards not otherwise

classified:

Storage:

May form combustible dust concentrations in the air.

**Precautionary statements:** 

**Prevention:** Do not breathe dust/fumes/mist/vapours.

Use only outdoors or in a well-ventilated area.

Wear protective gloves/clothing and eye/face protection.

**Response:** IF SWALLOWED: Immediately call a POISON CENTER/doctor. Do

NOT induce vomiting.

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

breathing. Call a POISON CENTER/doctor if you feel unwell.

In case of fire: Use appropriate media to extinguish. Store in a dry place. Store in a closed container.

Store in a well ventilated place. Keep container tightly closed.

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

local/regional/national/international regulations.

### 3: Composition

**Substance/mixture:** Mixture

Ingredient	Synonyms	CAS number	Concentration (%)
Coumarone-indene resin		63393-89-5	Trade secret
Naphtha, petroleum, aromcontg.		68603-08-7	Trade secret
Silica, amorphous, precipitated, and gel		112926-00-8	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.

**Contaminants:** Naphthalene (91-20-3) is contained in some of the component raw

materials as a non-reactive unintentional material. It has a relatively high boiling point (218°C) and a great affinity for petroleum hydrocarbons and thus is very difficult to remove

completely from the resins.

The component material typically contains less than 500 ppm of

naphthalene.

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:** Mild irritation.

**Inhalation:** Respiratory tract irritation.

**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

media:

Unsuitable extinguishing

media:

Do not use high-pressure water streams.

Dry chemical, carbon dioxide, foam, water spray.

Specific hazards arising from

the chemical:

Avoid generating vapours; vapours dispersed in air in sufficient concentrations and in the presence of an ignition source are a potential explosion hazard. Vapours are heavier than air and can collect in low areas; vapours can travel to an ignition source and

flash back.

**Hazardous thermal** Upon combustion, this product emits carbon monoxide carbon

**decomposition products:** dioxide, and/or low molecular weight hydrocarbons.

Special protective actions for

firefighters:

Keep away from sources of ignition. Avoid inhalation of material or combustion by-products. Move material from fire area if it can be

done without risk. Use extinguishing agents appropriate for

surrounding fire. Dike for later disposal. Stay upwind and keep out

of low areas.

**Special protective**Wear full protective firefighting gear including self-contained breathing apparatus (SCBA) for protection against possible

exposure.

### 6: Accidental release measures

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

**For non-emergency**No action shall be taken involving any personal risk or without suitable training. Keep unnecessary and unprotected personnel

from entering. Do not touch or walk through spilled material.

Product forms slippery surface when combined with water.

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:** 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: Vacuum or sweep up material and place in a designated, labeled

waste container.

Large spill: 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 occupational

hygiene:

Eating, drinking, and smoking should be prohibited in areas where 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.

See also **Section 8** for additional information on hygiene

measures.

Conditions for safe storage, including any incompatibilities:

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.

**Incompatibilities:** Strong oxidizing materials, combustible materials

### 8: Exposure controls/personal protection

### **Control parameters**

Occupational exposure limits

Components with limit values that require monitoring at the workplace:		
Naphthalene (91-20-3)		
ACGIH	10 ppm TWA	
	15 ppm STEL	
	Skin – potential significant contribution to overall exposure by	
	the cutaneous route	
NIOSH	10 ppm TWA; 50 mg/m <sup>3</sup> TWA	
	15 ppm STEL; 75 mg/m <sup>3</sup> STEL	
	250 ppm IDLH	
OSHA (US)	10 ppm TWA; 50 mg/m <sup>3</sup> TWA	
Europe	10 ppm TWA; 50 mg/m <sup>3</sup> TWA	
Mexico	10 ppm TWA LMPE-PPT; 50 mg/m <sup>3</sup> TWA LMPE-PPT	
	15 ppm STEL [LMPE-CT]; 75 mg/m <sup>3</sup> STEL [LMPE-CT]	

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** 

Other 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 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: White to tan.

Odor: Petroleum odor.

Odor threshold: Not available.

pH: Not available.

Melting/freezing point: Not available.

Boiling point and range: Not available.

Flash point: >330°F

**Evaporation rate:**Flammability:
Not available.
Not available.
Flammability or explosive
Not available.

limits:

Vapor pressure:

Vapor density:

Relative density:

Solubility:

Partition coefficient: n
Not available.

Not available.

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.

**Possibility of hazardous** Under normal conditions of storage and use, hazardous reactions

reactions: will not occur.

**Conditions to avoid:** High temperature (>800°C) treatment (calcining). Avoid alteration

of product properties before use. Calcining (which may result in crystalline silica formation) or mixing with additives may alter

toxicological properties. Avoid generating dust.

Refer to protective measures listed in Sections 7 and 8.

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

oxidizing materials, strong alkalis.

**Hazardous decomposition** 

products:

Upon decomposition, this product emits carbon monoxide, carbon

dioxide, and/or low molecular weight hydrocarbons.

### 11: Toxicological information

### **Information on toxicological effects**

**Acute toxicity** 

Naphthalene	LC50 inhalation	Rat	>340 mg/kg	-
	LD50 oral	Rat	1110 mg/kg	-
	LD50 dermal	Rabbit	1120 mg/kg	-

### Irritation/corrosion

**Conclusion/summary** 

Skin:No known significant effects or critical hazards.Eyes:No known significant effects or critical hazards.Respiratory:No known significant effects or critical hazards.

Sensitization

**Conclusion/summary:** 

**Skin:** No known significant effects or critical hazards. **Respiratory:** No known significant effects or critical hazards.

**Mutagenicity:** 

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

Carcinogenicity

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

Classification

<del>Ciabbilication</del>			
Ingredient	OSHA	IARC	NTP
Silica, amorphous,	-	3	-
precipitated, and gel			
Naphthalene	+	2B	Reasonably anticipated to be a human
			carcinogen

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: No known significant effects or critical hazards.

**Teratogenicity** 

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

Specific target organ toxicity (single exposure)

Not available.

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

Skin: May cause damage to skin through repeated or prolonged

exposure.

Contains material which may cause damage to the following **Target organs** 

organs: upper respiratory tract, eyes.

**Aspiration hazard** 

May be fatal if swallowed and enters airways.

**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. May cause drowsiness and dizziness.

Skin contact: Prolonged or repeated contact may damage skin. Ingestion: May be fatal if swallowed and enters airways.

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 long-term exposure

Conclusion/summary: An epidemiological study was conducted which included 165

> precipitated silica workers who had been exposed an average time of 8.6 years. Of these 165 workers, 44 had been exposed for an average of 18 years. No adverse effects were noted in complete medical examinations (including chest roentgenograms) of these workers. Pulmonary function decrements were correlated only with smoking and age but not with the degree or duration of dust exposures. Laboratory studies have also been conducted in small animals via inhalation of levels of precipitated silica dust of up to 126 mg/m<sup>3</sup> per periods from six months to two years. Although precipitated silica was temporarily deposited in animals' lungs, most of the deposited material was cleared soon after the dust exposure ended. The results of all studies performed by, or known

to, PPG indicated a very low order of pulmonary activity for

synthetic precipitated silicas. PPG recommends that persons with breathing problems or lung disease should not work in dusty areas unless a physician approves and certifies their fitness to wear respiratory protection.

Prolonged or repeated contact may dry skin and cause irritation.

**Short-term exposure** 

**Potential immediate** Symptoms/effects may include mild skin irritation, mild eye

effects irritation, nervous system damage, respiratory tract irritation, and

aspiration hazard.

Potential delayed effects

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. May cause damage to skin through

prolonged or repeated exposure.

**Potential chronic health** 

<u>effects</u>

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

Carcinogenicity:

Mutagenicity:
No known significant effects or critical hazards.
Teratogenicity:
No known significant effects or critical hazards.
Developmental effects:
No known significant effects or critical hazards.
Fertility effects:
No known significant effects or critical hazards.

Numerical measures of toxicity

**Acute toxicity estimates** 

Not available.

## 12: Ecological information

#### **Toxicity**

Ingredient	Result	Species	Exposure
Silica, amorphous,	NOEC > 1000 ppm	Daphnia – <i>daphnia</i>	24 hours
precipitated, and		magna	
gel			
	Acute NOEC > 10000 ppm	Fish	96 hours static
	fresh water		
	Acute NOEC > 10000 ppm	Fish – brachydanio rerio	4 days static
Naphthalene	LC50 5.74-6.44 mg/L flow-	Fish – pimephales	96 hours
	through	promelas	
	LC50 1.6 mg/L flow-through	Fish – oncorhyncus mykiss	96 hours
	LC50 0.91-2.82 mg/L static	Fish – oncorhyncus mykiss	96 hours
	LC50 1.99 mg/L static	Fish – pimephales	96 hours
		promelas	
	LC50 31.0265 mg/L static	Fish – <i>lepomis</i>	96 hours
		macrochirus	
	EC50 0.4 mg/L	Algae – skeletonema	72 hours
		costatum	

EC50 2.16 mg/L IUCLID	Daphnia – <i>daphnia</i>	48 hours
	magna	
EC50 1.96 mg/L flow-through	Daphnia – <i>daphnia</i>	48 hours
EPA	magna	
EC50 1.09-3.4 mg/L static EPA	Daphnia – <i>daphnia</i>	48 hours
	magna	

Persistence and degradability

Ingredient	Aquatic half-life	Photolysis	Biodegradability
Silica, amorphous,	-	-	Not readily
precipitated, and			
gel			

**Bioaccumulative potential** 

Ingredient	LogPow	BCF	Potential
Silica, amorphous,	-	0	low
precipitated, and			
gel			

### **Mobility in soil**

**Soil/water partition** Not available.

coefficient (Koc):

**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	Not regulated.	Not regulated.	Not regulated.
UN proper shipping	-	-	-
name			
Transport hazard	-	-	-
class(es)			
Packing group	-	-	-
<b>Environmental hazards</b>	No.	No.	No.
Marine pollutant	Not applicable.	Not applicable.	Not applicable.
substances			

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.

Not available.

Transport in bulk according to Annex II of MARPOL 73/78 and

the IBC code:

## 15: Regulatory information

### **Inventory status**

**United States inventory (TSCA** All components are listed or exempted.

8b):

Australia inventory (AICS):

Canada inventory (DSL):

Europe inventory (REACH):

Korea inventory (KECI):

New Zealand inventory

All components are listed or exempted.

(NZIoC):

### 16: Other information

**Hazardous Material Indentification System (USA)** 

HEALTH	2
FLAMMABILITY	1
REACTIVITY	0

#### PERSONAL PROTECTION

#### \* - chronic effects

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.

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 International convention for the Prevention of 73/78 Pollution from Ships, 1973, as modified by the

Protocol of 1978. (MARPOL = marine pollution)

UN United Nations

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