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Material Safety Data Sheet

Section 1. Product and Identification		
Common name:	DCC	
Synonyms:	1,3-Dicyclohexylcarbodiimide	
Molecular formula:	C₁₃H₂₂N₂	
Molecular Weight:	206.34	
CAS #:	538-75-0	
In case of emergency:		
Chemtrec (24hr)	(800) 424-9300	
Supplier:	AerChem Inc. 320 N. Walnut St. Bloomington, IN 47404 U.S.A..	phone: (812) 334-9996 fax: (812) 334-1960 http://www.aerchem.com

Section 2. Composition and Informaion on Ingredients

Name	CAS #	% by Weight
1,3-Dicyclohexylcarbodiimide	538-75-0	100

Toxicological Data on Ingredients	1,3-Dicyclohexylcarbodiimide
	ORAL (LD50 rat) 1110 mg/kg
	DERMAL (LD50 rat) 70.7 mg/kg

Section 3. Hazards Identification

Potential Acute Health Effects:	Severly irritating in case of eye contact (irritant), of ingestion, of inhalation. Very slightly to slightly dangerous incase of skin contact (irritant). This product may irritate eyes and skin upon contact.
Potential Chronic Health Effects:	Dangerous in case of eye contact (irritant), of ingestion, of inhalation. Very slightly to slightly dangerous incase of skin CARCINOGENIC EFFECTS: Not Available. MUTAGENIC EFFECTS: Not Available. TERATOGENIC EFFECTS: Not Available. Toxicity of the product to the reproductive system: Not available

Section 4. First Aid Measures	
Eye contact:	Exposed eye should be flushed with large amounts of water thoroughly. Assure adequate flushing of the eyes by separating the eyelids w/finger. If irritation persists, seek medical advice.
Skin contact:	Immediately wash exposed area with 2-3% aqueous acetic acid, then with soap and copious amounts of water. Remove contaminated clothing and shoes. If irritation persists, seek medical advice.
Inhalation:	If signs for overexposure occur, remove the person to fresh air at once. If breathing is difficult, give oxygen. If necessary, seek medical advice.
Ingestion:	If swallowed, wash out mouth with water, and give diluted vinegar and water to drink. If necessary, seek medical advice.

Section 5. Fire-Fighting Measures	
Flash point:	138°C
Explosion Limits	not found
Flammability:	Non-flammable
Extinguishing Media	Use water spray, carbon dioxide, dry chemical powder, and polymer foam for fires involving this material
Fire &Explosion Hazard:	N/A

Section 6. Accidental Release Measures	
Stepstaken for a Spill:	Immediately evacuate all persons from danger area. Notify safety personnel of spills. Area where spillage or contamination occurs should be decontaminated by experienced personnel in a manner that does not generate excessive dust. Clean up personnel may need to wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves, if necessary. Sweep up, place in a bag and hold for waste disposal. Ventilate area and wash spill site after material pickup is complete.
Waste Disposal Method:	Discard any waste product, residue, disposable container, liner or spilled material in an environmentally acceptable manner that is in full compliance with all applicable national and local laws and regulations. Burn in a chemical incinerator equipped with an afterburner and scrubber. When this material is on liquid condition, it is better to neutralize its chemical nature by using weak acid as 5% acetic acid solution.

Section 7. Handling and Storage	
Handling:	Avoid eye, skin, and clothing contact and inhalation of this material as dust. This material may cause eye, skin, and respiratory irritation. Persons susceptible to allergies must not handle this material. Do not inhale this material dust. Wash hands thoroughly after handling. Avoid prolonged exposure. The container of this material should not be warmed by an open flame, but be warmed on the hot water bath.
Storage:	Store in closed containers in a cool, dry, and well-ventilated area away from heat, all sources of ignition, and light. Keep tightly closed.

Section 8. Exposure Controls	
Ventilation:	Local exhaust system
Eye protection:	Wear close-fitting chemical safety goggles.
Skin protection:	Avoid prolonged exposure. Use rubber gloves and clothing protection.
Respiratory protection:	Wear NIOSH approved respirators to protect from airborne dust.

Section 9. Physical and Chemical Properties

Molecular weight:	206.34
Appearance and odor:	White to pale yellow crystalline mass
pH:	N/A
Vapor pressure:	11 mmHg (155°C)
Boiling point:	154-156°C (11mmHg)
Melting point:	35-36°C
Solubility:	Insoluble in water. Soluble in organic solvents.
Density:	0.946 (40°C)
Viscosity	5.81cp (45°C)

Section 10. Stability and Reactivity

Chemically **Stable**.

Avoid open flame and sources of ignition.

Incompatible with acids, and oxidizing agents

Hazardous Polymerization does not occur.

Does not **Decompose**.

Section 11. Transportation Information

Class:	6.1
UN #:	2811
Listed on TSCA inventory	
OSHA HCS	N/A
EINECS	listed 208-704-1
EEC	N/A