



Material Safety Data Sheet

NFPA	HMIS	Personal Protective Equipment
220	Health Hazard 2 Fire Hazard 2	
	Reactivity	See Section 15.

Section 1. Chemical Product and Company Identification			Page Number: 1	
Common Name/ Trade Name	n-Carbethoxy-2-Piperidone		Catalog Number(s).	C2007
			CAS#	29976-53-2
Manufacturer	SPECTRUM LABORATORY PRODUCTS INC.		RTECS	Not available.
	14422 S. SAN PEDRO STREET GARDENA, CA 90248		TSCA	TSCA 8(b) inventory: No products were found.
Commercial Name(s)	Not available.		CI#	Not available.
Synonym	Ethyl-4-Oxo-1-Piperidinecarboxylate		DI CACE OF	EMEDGENOV
Chemical Name	n-Carbethoxy-2-Piperidone			EMERGENCY (24hr) 800-424-9300
Chemical Family	Not available.		CALL (310) 5	16-8000
Chemical Formula	C8-H13-N-O3			
Supplier	SPECTRUM LABORATORY PRODUCTS INC. 14422 S. SAN PEDRO STREET GARDENA, CA 90248	_		

				Exposure Limits		
Name		CAS#	TWA (mg/m³)	STEL (mg/m³)	CEIL (mg/m³)	% by Weight
1) {n-}Carbethoxy-2-Piperidone		29976-53-2				100

Section 3. Hazards Identification		
Potential Acute Health Effects	Hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation.	
Potential Chronic Health Effects	CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. The substance may be toxic to central nervous system (CNS). Repeated or prolonged exposure to the substance can produce target organs damage.	

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Section 4. First A	id Measures
Eye Contact	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention.
Skin Contact	In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.
Serious Skin Contact	Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medical attention.
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Serious Inhalation	Not available.
Ingestion	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.
Serious Ingestion	Not available.

Section 5. Fire and E.	xplosion Data
Flammability of the Product	Combustible.
Auto-Ignition Temperature	Not available.
Flash Points	CLOSED CUP: 87.778°C (190°F).
Flammable Limits	Not available.
Products of Combustion	These products are carbon oxides (CO, CO2), nitrogen oxides (NO, NO2).
Fire Hazards in Presence of Various Substances	Flammable in presence of open flames and sparks, of heat. Non-flammable in presence of shocks.
Explosion Hazards in Presence of Various Substances	Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.
Fire Fighting Media and Instructions	SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.
Special Remarks on Fire Hazards	Not available.
Special Remarks on Explosion Hazards	Not available.

Section 6. Acc	idental Release Measures
Small Spill	Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.
Large Spill	Combustible material. Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

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Section 7. Hai	ndling and Storage
Precautions	Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not breathe gas/fumes/ vapor/spray. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If you feel unwell, seek medical attention and show the label when possible. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents, alkalis.
Storage	Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame). Do not store above 25°C (77°F).

Section 8. Exposure	Controls/Personal Protection
Engineering Controls	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.
Personal Protection	Splash goggles. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.
Personal Protection in Case of a Large Spill	Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.
Exposure Limits	Not available.

Section 9. Physical a	nd Chemical Properties			
Physical state and appearance	Liquid.	Odo	r	Odorless.
Molecular Weight	171.2 g/mole	Tast	te	Not available.
pH (1% soln/water)	Not available.	Colo	or	Colorless to light yellow.
Boiling Point	147°C (296.6°F)			
Melting Point	Not available.			
Critical Temperature	Not available.			
Specific Gravity	1.135 (Water = 1)			
Vapor Pressure	Not available.			
Vapor Density	5.9 (Air = 1)			
Volatility	Not available.			
Odor Threshold	Not available.			
Water/Oil Dist. Coeff.	Not available.			
Ionicity (in Water)	Not available.			
Dispersion Properties	See solubility in water.			
Solubility	Soluble in cold water.			

Section 10. Stability and Reactivity Data		
Stability	The product is stable.	
Instability Temperature	Not available.	
Conditions of Instability	Heat, ignition sources, incompatible materials	
Incompatibility with various substances	Reactive with oxidizing agents, alkalis.	
Corrosivity	Not available.	

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Special Remarks on Reactivity	Not available.	
Special Remarks on Corrosivity	Not available.	
Polymerization	Will not occur.	

Section 11. Toxicological Information			
Routes of Entry	Absorbed through skin. Eye contact. Inhalation.		
Toxicity to Animals	LD50: Not available. LC50: Not available.		
Chronic Effects on Humans	May cause damage to the following organs: central nervous system (CNS).		
Other Toxic Effects on Humans	Hazardous in case of skin contact (irritant), of ingestion, of inhalation.		
Special Remarks on Toxicity to Animals	Not available.		
Special Remarks on Chronic Effects on Humans	Not available.		
Special Remarks on other Toxic Effects on Humans	Acute Potential Health Effects: Skin: May cause skin irritation and dermatits. May cause cyanosis of the extremities. Eyes: May cause irritation of the eyes. May cause chemical conjunctivitis and corneal damage. Inhalation: May cause respiratory tract irritation. Aspiration may lead to pulmonary edema. Inhalation of high concentrations may cause Central Nervous System depression and asphixiation. Ingestion: May cause gastrointestinal tract irritation with nausea, vomiting and diarrhea. May cause Central Nervous System depression. The toxicological properties of this substance have not been fully investigated.		

Section 12. Ecological Information		
Ecotoxicity	Not available.	
BOD5 and COD	Not available.	
Products of Biodegradation	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.	
Toxicity of the Products of Biodegradation	The product itself and its products of degradation are not toxic.	
Special Remarks on the Products of Biodegradation	Not available.	

Waste Disposal Waste must be disposed of in accordance with federal, state and local environmental control regulations.

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Section 14. Transport Information		
DOT Classification	Not a DOT controlled material (United States).	
Identification	Not applicable.	
Special Provisions for Transport	Not applicable.	
DOT (Pictograms)		

Section 15. Other Regulatory Information and Pictograms **Federal and State** No products were found. Regulations California Proposition 65 Warnings **Other Regulations** OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200). EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances. CLASS B-3: Combustible liquid with a flash point between 37.8°C (100°F) and 93.3°C **Other Classifications** WHMIS (Canada) (200°F). DSCL (EEC) R36/38- Irritating to eyes and skin. S2- Keep out of the reach of children. S46- If swallowed, seek medical advice immediately and show this container or label. **Health Hazard HMIS (U.S.A.)** 2 **National Fire Protection** Flammability Association (U.S.A.) Fire Hazard 2 Health Reactivity Reactivity 0 Specific hazard Personal Protection h WHMIS (Canada) (Pictograms) **DSCL** (Europe) (Pictograms) TDG (Canada) (Pictograms)



ADR (Europe) (Pictograms)



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Protective Equipment



Gloves.



Lab coat.



Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.



Splash goggles.

Section 16. Other Information		
MSDS Code	3165C	
References	Not available.	
Other Special Considerations	Not available.	
Validated by Sonia Owen on 8/11/2006.		Verified by Sonia Owen. Printed 9/11/2006.

CALL (310) 516-8000

Notice to Reader

All chemicals may pose unknown hazards and should be used with caution. This Material Safety Data Sheet (MSDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this MSDS. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this MSDS is based on technical data judged to be reliable, Spectrum Quality Products, Inc. assumes no responsibility for the completeness or accuracy of the information contained herein.