



# **Material Safety Data Sheet**

NFPA	HMIS	Personal Protective Equipment
220	Health Hazard     2       Fire Hazard     2	
	Reactivity 0	See Section 15.

Section 1. Chem	ical Product and Company Identification		Page Number: 1
Common Name/ Trade Name	Ethyl pyruvate	Catalog Number(s).	XX642, E1168
		CAS#	517-35-6
Manufacturer	SPECTRUM CHEMICAL MFG. CORP.	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	Not available.		
Chemical Name	Not available.		<u>EMERGENCY</u> (24hr) 800-424-9300
Chemical Family	Not available.	CALL (310) 5 <sup>2</sup>	16-8000
Chemical Formula	C5-H8-O3		
Supplier	SPECTRUM CHEMICAL MFG. CORP. 14422 S. SAN PEDRO STREET GARDENA, CA 90248		

Section 2.Composition	and Information	on Ingredients				
				Exposure Limits		
Name		CAS #	TWA (mg/m <sup>3</sup> )	STEL (mg/m <sup>3</sup> )	CEIL (mg/m <sup>3</sup> )	% by Weight
1) Ethyl pyruvate		517-35-6				100
Toxicological Data on Ingredients	Ethyl pyruvate LD50: Not available. LC50: Not available.		1	1		
Section 3. Hazards lo	lentification					
Potential Acute Health Effects	Very hazardous in ca irritant). Slightly haza				ntact (irritant), of	inhalation (lung
Potential Chronic Health Effects	CARCINOGENIC EFF MUTAGENIC EFFEC TERATOGENIC EFFI DEVELOPMENTAL T Repeated or prolonge	TS: Not available. ECTS: Not available. OXICITY: Not availab	ble.	dical condition.		

# Section 4. 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. Cold water may be used. Do not use an eye ointment. Seek medical attention.
Skin Contact	After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cold water may be used. Cover the irritated skin with an emollient. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.
Serious Skin Contact	Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medical attention.
Inhalation	Allow the victim to rest in a well ventilated area. Seek immediate medical attention.
Serious Inhalation	Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek medical attention.
Ingestion	Do not induce vomiting. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.
Serious Ingestion	Not available.

#### Section 5. Fire and Explosion Data

Flammability of the Product	Flammable.
Auto-Ignition Temperature	Not available.
Flash Points	CLOSED CUP: 45°C (113°F).
Flammable Limits	Not available.
Products of Combustion	These products are carbon oxides (CO, CO2).
Fire Hazards in Presence of Various Substances	Not available.
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	Flammable liquid, soluble or dispersed in water. SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use alcohol foam, water spray or fog. Cool containing vessels with water jet in order to prevent pressure build-up, autoignition or explosion.
Special Remarks on Fire Hazards	Not available.
Special Remarks on Explosion Hazards	Not available.
Section 6. Accidental	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

# Large Spill Container. Large Spill Flammable liquid. Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. Do not touch spilled material. Prevent entry into sewers, basements or confined areas; dike if needed.

# Section 7. Handling and Storage

Precautions	Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not breathe gas/fumes/ vapour/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
Storage	Flammable materials should be stored in a separate safety storage cabinet or room. Keep away from heat. Keep away from sources of ignition. Keep container tightly closed. Keep in a cool, well-ventilated place. Ground all

equipment containing material. Keep container dry. Keep in a cool place.

#### Section 8. Exposure Controls/Personal Protection

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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 and Chemical Properties

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Physical state and appearance	Liquid.	Odor	Not available.
Molecular Weight	116.12 g/mole	Taste	Not available.
pH (1% soln/water)	Not available.	Color	Colorless to light yellow.
Boiling Point	144°C (291.2°F)		
Melting Point	0°C (32°F)		
Critical Temperature	Not available.		
Specific Gravity	1.06 (Water = 1)		
Vapor Pressure	Not available.		
Vapor Density	Not available.		
Volatility	Not available.		
Odor Threshold	Not available.		
Water/Oil Dist. Coeff.	Not available.		
Ionicity (in Water)	Not available.		
<b>Dispersion Properties</b>	See solubility in water.		
Solubility	Partially soluble in cold water.		
Section 10. Stability	and Reactivity Data		
Stability	The product is stable.		
Instability Temperature	Not available.		

Instability Temperature

**Conditions of Instability** 

Not available. **Incompatibility with various** substances

Not available.

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Corrosivity	Non-corrosive in presence of glass.	
Special Remarks on Reactivity	Not available.	
Special Remarks on Corrosivity	Not available.	
Polymerization	No.	

Section 11. Toxicolo	ogical Information
Routes of Entry	Absorbed through skin. Dermal contact. Eye contact. Inhalation.
Toxicity to Animals	LD50: Not available. LC50: Not available.
Chronic Effects on Humans	Not available.
Other Toxic Effects on Humans	Very hazardous in case of skin contact (irritant). Hazardous in case of inhalation (lung irritant). Slightly hazardous in case of skin contact (permeator).
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	Not available.

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 products of degradation are more toxic.
Special Remarks on the Products of Biodegradation	Not available.

# Section 13. Disposal Considerations

Waste Disposal

DOT Classification	CLASS 3: Combustible liquid with a flash point greater than 37.8C (100F).
Identification	: Ethyl Pyruvic Acid : UN3272 PG: III
Special Provisions for Transport	Not available.

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# Ethyl pyruvate

DOT (Pictograms)





Federal and State Regulations	Connecticut carcinogen reporting list.: Ethyl pyruvate TSCA 8(b) inventory: No products were found.			
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.			
Other Classifications	WHMIS (Canada)       CLASS B-3: Combustible liquid with a flash point between 37.8°C (100°F) and 93.3°C (200°F).         CLASS D-2B: Material causing other toxic effects (TOXIC).			
	DSCL (EEC) R10- Flammable. R36/37/38- Irritating to eyes, respiratory system and skin.			
HMIS (U.S.A.)	Health Hazard2National Fire Protection Association (U.S.A.)Flammability ReactivityReactivity0			
WHMIS (Canada) (Pictograms)	Personal Protection h	ird		
DSCL (Europe) (Pictograms)				
TDG (Canada) (Pictograms)				
ADR (Europe) (Pictograms)				
Protective Equipment	Gloves.			
	Lab coat.			
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Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.

Splash goggles.

MSDS Code	4135E		
References	Not available.		
Other Special Considerations	Not available.		
Validated by Sonia Owen on 8/11/2006.		Verified by Sonia Owen. Printed 9/12/2006.	
CALL (310) 516-80	00		

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.