



Material Safety Data Sheet

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

Section 1. Chemical Product and Company Identification				Page Number: 1
Common Name/ Trade Name	Undecane		Catalog Number(s).	U2001
			CAS#	1120-21-4
Manufacturer	SPECTRUM QUALITY PRODUCTS INC.		RTECS	YQ1525000
	14422 S. SAN PEDRO STREET GARDENA, CA 90248		TSCA	TSCA 8(b) inventory: Undecane
Commercial Name(s)	Not available.		CI#	Not available.
Synonym	Not available.		IN CASE OF EMERGENCY	
Chemical Name	Undecane		-	EMERGENCY 2 (24hr) 800-424-9300
Chemical Family	Not available.		CALL (310) 5	16-8000
Chemical Formula	C11-H24			
Supplier	SPECTRUM QUALITY 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) Undecane	1120-21-4				100

Section 3. Hazards Identification		
Potential Acute Health Effects	Hazardous in case of skin contact (irritant), of eye contact (irritant).	
Potential Chronic Health Effects	CARCINOGENIC EFFECTS: Classified 4 (No evidence.) by NTP, None. by OSHA, None. by NIOSH. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. Repeated or prolonged exposure is not known to aggravate medical condition.	

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. 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. 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	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 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.

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Section 5. Fire and E.	Section 5. Fire and Explosion Data		
Flammability of the Product	Flammable.		
Auto-Ignition Temperature	204.6°C (400.3°F)		
Flash Points	CLOSED CUP: 65°C (149°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. 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	Absorb with an inert material and put the spilled material in an appropriate waste disposal.	
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.	

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Section 7. Handling	and Storage		
Precautions		ole protective clothing.	nd all equipment containing material. Do not If you feel unwell, seek medical attention and
Storage	Store in a segregated and approved area. It closed and sealed until ready for use. Avoid a		ol, well-ventilated area. Keep container tightly gnition (spark or flame).
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. Gloves.		
Personal Protection in Case of a Large Spill	Splash goggles. Full suit. Boots. Gloves. 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		
TO 1 1 4 4 1	Liquid.	Odor Hyd	rocarbon. (Slight.)
Physical state and appearance			
Physical state and appearance Molecular Weight	156.31 g/mole	Taste Not	available.

Section 9. Physical and Chemical Properties				
Physical state and appearance	Liquid.	Odor	Hydrocarbon. (Slight.)	
Molecular Weight	156.31 g/mole	Taste	Not available.	
pH (1% soln/water)	Not available.	Color	Colorless.	
Boiling Point	196°C (384.8°F)			
Melting Point	-10°C (14°F)			
Critical Temperature	Not available.			
Specific Gravity	0.74 (Water = 1)			
Vapor Pressure	0.1 kPa (@ 20°C)			
Vapor Density	5.4 (Air = 1)			
Volatility	Not available.			
Odor Threshold	Not available.			
Water/Oil Dist. Coeff.	Not available.			
Ionicity (in Water)	Not available.			
Dispersion Properties	Very slightly dispersed in methanol, diethyl ether. See solubility in water, methanol, diethyl ether.			
Solubility	Partially soluble in methanol, diethyl ether.			

Section 10. Stability and Reactivity Data	
Stability	The product is stable.
Instability Temperature	Not available.
Conditions of Instability	Not available.
Incompatibility with various substances	Slightly reactive to reactive with oxidizing agents.
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.	
Toxicity to Animals	LD50: Not available. LC50: Not available.	
Chronic Effects on Humans	CARCINOGENIC EFFECTS: Classified 4 (No evidence.) by NTP, None. by OSHA, None. by NIOSH.	
Other Toxic Effects on Humans	Hazardous in case of skin contact (irritant).	
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 product itself and its products of degradation are not toxic.			
Special Remarks on the Products of Biodegradation	Not available.			

Section 13. Disposal Considerations

Waste Disposal

Section 14. Transport Information				
DOT Classification	CLASS 3: Flammable liquid.			
Identification	: Flammable Liquid (Undecane) UNNA: 2330 PG: III			
Special Provisions for Transport	Not available.			
DOT (Pictograms)	TI-MMAID HIGH			

Undecane Page Number: 5 Section 15. Other Regulatory Information and Pictograms TSCA 8(b) inventory: Undecane **Federal and State** TSCA 8(d) H and S data reporting: Undecane: June 1999 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-2: Flammable liquid with a flash point lower than 37.8°C (100°F). **Other Classifications** WHMIS (Canada) DSCL (EEC) R36/38- Irritating to eyes and skin. **Health Hazard** 2 HMIS (U.S.A.) **National Fire Protection** Flammability **Association (U.S.A.)** Fire Hazard 2 Health Reactivity Reactivity 0 Specific hazard Personal Protection WHMIS (Canada) (Pictograms) **DSCL** (Europe) (Pictograms) TDG (Canada) (Pictograms) ADR (Europe) (Pictograms)



Protective Equipment



Gloves.



Lab coat.

Wear appropriate respirator when ventilation is inadequate.



Splash goggles.

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Section 16. Other Information				
MSDS Code	U3004			
References	Not available.			
Other Special Considerations	Not available.			
Validated by Sonia Owen on 8/11/2006.		Verified by Sonia Owen.		
		Printed 9/14/2006.		
CALL (310) 516-80	000			

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.