

# MATERIAL SAFETY DATA SHEET

## SECTION I - PRODUCT IDENTIFICATION AND USE

Product Identifier: CITRALENE NS  
Product Use: CITRUS BASED DEGREASER  
Supplier: SHARE CANADA  
Address: 1691 CHURCH AVENUE, WINNIPEG, MANITOBA R2X 2Y7  
Telephone: (204) 633-8553 Fax: (204) 633-8453 CANUTEC: (613) 996-6666

## SECTION II - HAZARDOUS INGREDIENTS

Ingredient	CAS Number	Weight %	OSHA PEL	ACGIH TLV
d 'Limonene	5989-27-5	60 – 90 %	Not established.	Not established.

## SECTION III - PHYSICAL DATA

Physical State: LIQUID  
Specific gravity: 0.84  
pH: Not available.  
Odour and appearance: CLEAR, COLOURLESS LIQUID, CITRUS ODOUR  
Odour threshold: Not available. Vapour pressure (mmHg): 2.0  
Vapour density (air = 1): Not available. Evaporation rate (water = 1): > 1  
% volatile by volume: > 90%. Solubility in water: INSOLUBLE.  
Boiling Point ( C<sup>0</sup> ): 175.5 to 176. Freezing Point ( C<sup>0</sup> ): Not available.  
Coefficient of water/oil distribution: Not available.

## SECTION III - FIRE AND EXPLOSION DATA

Flammable or combustible: COMBUSTIBLE LIQUID  
Flash Point ( C<sup>0</sup> ) and method: 46<sup>0</sup> C  
Upper flammable limit: 6.1 Lower flammable limit: .7  
Autoignition temperature: Not available. Flammability classification: Not applicable.  
Conditions of flammability: HEAT, SPARKS OR OPEN FLAMES. GUARD AGAINST SPONTANEOUS COMBUSTION OF IMPROPERLY DISPOSED OILY RAGS.  
Means of extinction: FOAM, CARBON DIOXIDE, DRY CHEMICAL.  
Special fire fighting procedures: USE WATER SPRAY TO COOL FIRE-EXPOSED CONTAINERS. SOLVENT VAPOURS MAY CAUSE FLASHBACKS. FIREFIGHTERS SHOULD BE EQUIPPED WITH FULL PROTECTIVE GEAR INCLUDING SELF - CONTAINED BREATHING APPARATUS.  
Hazardous combustion products: OXIDES OF CARBON.  
Sensitivity to mechanical impact: NOT SENSITIVE  
Sensitivity to static discharge: NOT SENSITIVE

## SECTION IV - REACTIVITY DATA

Is the product stable: STABLE  
Incompatible substances: STRONG OXIDIZING AND ACIDIC AGENTS, PEROXIDES, HALOGENS, VINYL CHLORIDE AND IODINE PENTAFLORIDE.  
Conditions of Reactivity: HEAT, SPARKS OR OPEN FLAME  
Hazardous decomposition products: THERMAL DECOMPOSITION MAY PRODUCE OXIDES OF CARBON.

PRODUCT IDENTIFIER: CITRALENE NS

SECTION V - TOXICOLOGICAL PROPERTIES

Primary routes of exposure: SKIN AND EYE CONTACT, INHALATION, INGESTION.  
Exposure Limits: WORKPLACE ENVIRONMENTAL EXPOSURE LEVEL (WEEL) d' Limonene - 30 ppm.  
WHMIS Classification: CLASS B 3 COMBUSTIBLE LIQUID, CLASS D 2B TOXIC MATERIAL.  
Irritant: SKIN AND EYE IRRITANT  
Carcinogen: NO - IARC / OSHA / NTP  
Sensitizer: d 'Limonene IS REPORTED AS A SENSITIZER  
Mutagen: NOT REPORTED AS A MUTAGEN  
Reproductive effects: NONE KNOWN  
Synergistic products: NONE KNOWN  
Effects of acute exposure: Eyes: MODERATE TO HIGH EYE IRRITATION, REDNESS, TEARING. Inhalation: IRRITATION OF THE NOSE, THROAT AND RESPIRATORY TRACT, COUGHING AND HEADACHE. Ingestion: HARMFUL IF SWALLOWED. GASTROINTESTINAL IRRITATION, NAUSEA, VOMITING AND DIARRHEA.  
Effects of chronic exposure: Skin: PROLONGED OR REPEATED CONTACT MAY RESULT IN IRRITATION, DRYING AND DEFATTING DERMATITIS. CONTAINS A POTENTIAL SKIN SENSITIZER.

SECTION VII - PREVENTION MEASURES

Gloves: CHEMICAL RESISTANT	Respirator: USE WITH ADEQUATE VENTILATION	Eye protection: SAFETY GLASSES OR CHEMICAL GOGGLES.
Footwear: NO SPECIAL REQUIREMENTS.	Clothing: TO PREVENT SKIN CONTACT.	Other requirements: EMERGENCY SHOWER / EYE WASH STATION

Engineering Controls: LOCAL VENTILATION RECOMMENDED.  
Respiratory protection: USE ONLY WITH ADEQUATE VENTILATION. DO NOT BREATHE SPRAY MIST. AVOID BREATHING OF VAPOURS.  
Leak or spill procedures: VENTILATE AREA AND EXTINGUISH ALL SOURCES OF IGNITION. CONTAIN SPILL. SOAK UP WITH INERT ABSORBENT MATERIAL AND PLACE IN PROPERLY MARKED CLOSED CONTAINER FOR DISPOSAL.  
Waste disposal: CONSULT LOCAL ENVIRONMENTAL AUTHORITIES. GUARD AGAINST SPONTANEOUS COMBUSTION OF IMPROPERLY DISPOSED OILY RAGS.  
Handling and storage requirements: STORE IN A COOL, DRY PLACE AWAY FROM HEAT AND OPEN FLAME. KEEP CONTAINER TIGHTLY CLOSED WHEN NOT IN USE. KEEP OUT OF THE REACH OF CHILDREN. DO NOT CUT OR WELD ON EMPTY CONTAINERS AS THEY MAY CONTAIN COMBUSTIBLE RESIDUE. Special shipping information: T.D.G. NOT REGULATED.

SECTION VIII - FIRST AID MEASURES

Eyes: REMOVE CONTACT LENSES IF APPLICABLE. FLUSH EYES AND UNDER EYELIDS FOR AT LEAST 15 MINUTES. IF IRRITATION PERSISTS, OBTAIN MEDICAL ATTENTION.  
Skin: REMOVE CONTAMINATED CLOTHING AND LAUNDER BEFORE RE-USE. WASH WITH LARGE AMOUNTS OF SOAP AND WATER. IF IRRITATION PERSISTS, OBTAIN MEDICAL ATTENTION.  
Ingestion: CONTACT PHYSICIAN OR POISON CONTROL CENTRE IMMEDIATELY. DO NOT INDUCE VOMITING. RINSE MOUTH WITH WATER, THEN DRINK ONE GLASS OF WATER. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS OR CONVULSING PERSON.  
Inhalation: REMOVE PERSON TO FRESH AIR. IF IRRITATION PERSISTS, OBTAIN MEDICAL ATTENTION.

SECTION IX - PREPARATION DATA

Information Sources: SUPPLIERS' MATERIAL SAFETY DATA SHEET.  
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