

# SAFETY DATA SHEET

## Ink Remover

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Identification**

Product Name: Ink Remover  
Product Number: C181

**Company Identification**

Chem-Dry New Zealand LTD  
108 Kelfield Place  
Hastings, New Zealand  
0800 24 36 37 Chem-Dry New Zealand LTD (For product information)

HRI

### 2. HAZARDS IDENTIFICATION

**GHS Classification:**

Flammable Liquids - Category 4  
Skin Corrosion/Irritation - Category 2  
Serious Eye Damage/Eye Irritation - Category 2/2A  
Reproductive Toxicology - Category 1  
Specific Target Organ - Single Exposure - Category 3

**GHS Hazard Symbols:**

Irritant, Health Hazard



**SIGNAL WORD:**

Danger.

**GHS Hazard Statements:**

H227 - Combustible Liquid  
H315 - Causes skin irritation.  
H319 - Causes serious eye irritation.  
H335 - May cause respiratory irritation.  
H360 - May damage fertility or the unborn child.

**GHS Precautionary Statements:**

P201 - Obtain special instructions before use.  
P202 - Do not handle until all safety precautions have been read and understood.  
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.  
P264 - Wash hands thoroughly after handling.  
P302/352 - IF ON SKIN: Wash with plenty of soap and water.



P305/351/338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P308/313 - IF exposed or concerned: Get medical advice/attention.  
P332/313 - If skin irritation occurs: Get medical advice/attention.  
P337/313 - If eye irritation persists: Get medical advice/attention.  
P362 - Take off contaminated clothing and wash before reuse.  
P403/233 - Store in a well-ventilated place. Keep container tightly closed.  
P501 - Dispose of contents/container to comply with applicable local, national and international regulation..  
P102 - Keep out of reach of children.  
P103 - Read label before use.  
P281 - Use personal protective equipment as required.

**CARCINOGENICITY INFORMATION:**

Not listed by IARC and NTP as a carcinogen.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

**COMPONENT LISTING:**

Chemical Name	Amount	CAS Number
1-METHYL-2-PYRROLIDINONE	60.0 - 100.0 %	872-50-4

### 4. FIRST AID MEASURES

**EYE CONTACT FIRST AID:**

Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.

**SKIN CONTACT FIRST AID:**

Wash with soap and water.

**INHALATION FIRST AID:**

Remove to fresh air.

**INGESTION FIRST AID:**

Clean mouth with water and drink plenty of water. Induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.

**NOTES TO PHYSICIAN:**

Treat symptomatically and supportively.

### 5. FIRE FIGHTING MEASURES

**EXTINGUISHING MEDIA:**

Use alcohol-resistant foam, carbon dioxide, or dry chemical when fighting fires involving this material.

**FIRE FIGHTING INSTRUCTIONS:**

As in any fire, wear self-contained breathing apparatus pressure-demand MSHA/NIOSH (approved or equivalent) and full protective gear.

### 6. ACCIDENTAL RELEASE MEASURES

**SAFEGUARDS (PERSONNEL):**



Wear appropriate personal protective equipment.



**LARGE SPILLS PROCEDURE:**

Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container.

**SMALL SPILLS PROCEDURE:**

Absorb spills with inert material.

## 7. HANDLING AND STORAGE

**RECOMMENDED STORAGE TEMPERATURE**

Minimum: 4.4 C (39.9 F)

Maximum: 43.3 C (109.9 F)

**HANDLING (PERSONNEL):**

Avoid contact with eyes, skin, and clothing. Avoid breathing vapor.

**HANDLING (PHYSICAL ASPECTS):**

Store in a cool dry area.

**STORAGE PRECAUTIONS:**

Store in a well ventilated place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**ENGINEERING CONTROLS:**

Use only with adequate ventilation.

**EYE / FACE PROTECTION REQUIREMENTS:**

Wear safety glasses.

**SKIN PROTECTION REQUIREMENTS:**

Wear protective gloves to minimize skin contamination.

**EXPOSURE GUIDELINES:**

No Information Available.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

FORM:	Liquid	COLOR:	
Colorless		ODOR:	Mild,
amine-like		BOILING POINT:	202
C			
VAPOR PRESSURE:	0.5 mm Hg @ 25 C		
VAPOR DENSITY:	3.4 (Air = 1)		
SOLUBILITY IN WATER:	Complete		
SPECIFIC GRAVITY:	1.028 (Water = 1)		
MELTING/FREEZING POINT:	-24 C		
PH:	7.7-8.0 (100g/L aqueous)		
VISCOSITY:	1.67 mPa s @ 20 d		

**FLAMMABLE PROPERTIES**

TCC Flash Point: 91.1 C (196.0 F)

Autoignition Temperature: 245 C (473.0 F)



**FLAMMABLE LIMITS IN AIR**



LEL: 1.3 Vol. %  
UEL: 9.5 Vol. %

## 10. STABILITY AND REACTIVITY

**STABILITY:**

Stable.

**POLYMERIZATION:**

Hazardous polymerization will not occur.

**INCOMPATIBILITY WITH OTHER MATERIALS:**

Oxidizing agents, sulfur, carbon disulfide, chlorinating agents.

**DECOMPOSITION:**

Nitrogen oxides, carbon monoxide, carbon dioxide.

## 11. TOXICOLOGICAL INFORMATION

**REPRODUCTION AND BIRTH EFFECTS:**

Fertility: Litter size, skin-rat TD<sub>01</sub>=7500 mg/Kg.

Post-implantation mortality, oral-mus TD<sub>01</sub>=12825 mg/Kg.

**1-METHYL-2-PYRROLIDINONE**

Test Code: Oral LD50  
Species: Mouse  
Results: 5130 mg/Kg

Test Code: Oral LD50  
Species: Rat  
Results: 3914 mg/Kg

Test Code: Dermal LD50  
Species: Rabbit  
Results: 8000 mg/Kg

## 12. ECOLOGICAL INFORMATION

**1-METHYL-2-PYRROLIDINONE**

Test Code: LC50  
Species: Daphnia  
Results: 5000 mg/L

Test Code: Acute Aquatic Toxicity (96 hr.)  
Species: Fish  
Results: 100 mg/L

## 13. DISPOSAL CONSIDERATIONS



**WASTE DISPOSAL:**

Treat or dispose of waste material in accordance with all local, state/provincial, and national requirements. Incineration



is recommended.

## 14. TRANSPORT INFORMATION

PRODUCT LABEL: Ink Remover  
D.O.T. SHIPPING NAME: Not regulated

### MISCELLANEOUS:

IATA Shipping Classification: Not Regulated.

IMO/IMDG Shipping Classification: Not Regulated.

## 15. REGULATORY INFORMATION

### REGULATORY LISTS SEARCHED:

01 = SARA TITLE III SECTION 302

03 = RCRA HAZARDOUS WASTE CODES

05 = CLEAN AIR ACT

02 = SARA Title III Section 313

04 = CERCLA Hazardous Substances

06 = California Prop. 65

### EEC Symbols and Indications of Danger:

None

### R-Phrases:

R36/37/38 - Irritating to eyes, respiratory system, and skin.

R47 - May cause birth defects.

R22 - Harmful if swallowed.

### S-Phrases:

S2 - Keep out of reach of children.

S41 - In case of fire and/or explosion, do not breathe fumes.

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S37 - Wear suitable gloves.

S24/25 - Avoid contact with skin and eyes.

S3 - Keep in a cool place.

### WHMIS Hazard Symbols:

None

### SARA Title III - Section 313

1-METHYL-2-PYRROLIDINONE (872-50-4)

### MISCELLANEOUS INFORMATION:

This material or all of its components are listed on the Inventory of Existing Chemical Substances under the Toxic Substance Control Act (TSCA).

## 16. OTHER INFORMATION

PREPARED BY: Sterling Nesbit  
APPROVED BY: Sterling Nesbit  
TITLE: Chemist  
APPROVAL DATE: March 14, 2019  
SUPERCEDES DATE: March 14, 2019  
RTN NUMBER: 00000018 (Official Copy)





**NFPA Rating:**

Health - 2  
Flammability - 1  
Reactivity - 0

