

Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 09/17/2008


Reviewed on 09/17/2008

1 Identification of substance

- **Product details**
- **Trade name:** *RL 1805 PU-Adhesive Remover*
- **Application of the substance / the preparation** *Cleaning material/ Detergent*
- **Manufacturer/Supplier:**
Aldo Products Company, Inc.
1604 N. Main St.
Kannapolis, N.C. 28081, USA (800) 474-601-49
- **Information department:** *Industrial Safety Department*
- **Emergency information:** *Infotrac +1 352 323 3500*

2 Composition/Data on components

- **Chemical characterization**
- **Description:** *Mixture of the substances listed below with nonhazardous additions.*
- **Dangerous components:**

872-50-4 N-METHYL-2-PYRROLIDON 50-100%
Warning:  *3.2/2, 3.3/2A; 2.6/4*

3 Hazards identification

- **Hazard description:**



Xi Irritant

- **Information pertaining to particular dangers for man and environment:**
The product has to be labelled due to the calculation procedure of international guidelines.
Irritating to eyes and skin.
- **Classification system:**
The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.
- **NFPA ratings (scale 0 - 4)**



Health = 1
Fire = 2
Reactivity = 0

- **HMIS-ratings (scale 0 - 4)**



HEALTH 1 Health = 1
FIRE 2 Fire = 2
REACTIVITY 0 Reactivity = 0

- **GHS label elements**



Warning

3.2/2 - Causes skin irritation.
3.3/2A - Causes serious eye irritation.

Warning

2.6/4 - Combustible liquid.

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· **Prevention:**

- *Keep away from heat/sparks/open flames/hot surfaces. - No smoking.*
- *Wash thoroughly after handling.*
- *Wear protective gloves/protective clothing/eye protection/face protection.*

· **Response:**

- *IF ON SKIN: Wash with plenty of soap and water.*
- *IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.*
- *Specific treatment (see label).*
- *If skin irritation occurs: Get medical advice/attention.*
- *If eye irritation persists: Get medical advice/attention.*
- *Take off contaminated clothing and wash before reuse.*
- *In case of fire: Use for extinction: CO2, powder or water spray.*

· **Storage:**

- *Store in a well-ventilated place. Keep cool.*

· **Disposal:**

- *Dispose of contents/container in accordance with local/regional/national/international regulations.*

4 First aid measures

- *After inhalation: In case of unconsciousness place patient stably in side position for transportation.*
- *After skin contact: Immediately wash with water and soap and rinse thoroughly.*
- *After eye contact:*
 - *Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.*
- *After swallowing: If symptoms persist consult doctor.*

5 Fire fighting measures

- *Suitable extinguishing agents: Use fire fighting measures that suit the environment.*
- *Special hazards caused by the material, its products of combustion or resulting gases:*
 - *During heating or in case of fire poisonous gases are produced.*
- *Protective equipment: Mouth respiratory protective device.*

6 Accidental release measures

- *Person-related safety precautions: Mount respiratory protective device.*
- *Measures for environmental protection:*
 - *Do not allow product to reach sewage system or any water course.*
 - *Inform respective authorities in case of seepage into water course or sewage system.*
 - *Dilute with plenty of water.*
- *Measures for cleaning/collecting:*
 - *Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).*
 - *Ensure adequate ventilation.*

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7 Handling and storage

- **Handling:**
- **Information for safe handling:**
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
- **Information about protection against explosions and fires:**
Keep respiratory protective device available.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep receptacle tightly sealed.

8 Exposure controls and personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Components with limit values that require monitoring at the workplace:**
872-50-4 N-METHYL-2-PYRROLIDON
WEEL 10 ppm
Skin
- **Additional information:** The lists that were valid during the creation were used as basis.
- **Personal protective equipment:**
- **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
- **Breathing equipment:** Use suitable respiratory protective device in case of insufficient ventilation.
- **Recommended filter device for short term use:** Filter A
- **Protection of hands:** Protective gloves
- **Material of gloves**
Butyl rubber, BR
Recommended thickness of the material: ≥ 0.3 mm
- **Penetration time of glove material**
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **As protection from splashes gloves made of the following materials are suitable:** Nitrile rubber, NBR
- **Eye protection:** Tightly sealed goggles

9 Physical and chemical properties

- **General Information**
- **Form:** Fluid
- **Color:** Clear
- **Odor:** Characteristic
- **Change in condition**
Melting point/Melting range: -23.6°C (-10°F)

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- Boiling point/Boiling range:** 204°C (399°F)
- **Flash point:** 91°C (196°F)
- **Ignition temperature:** 245°C (473°F)
- **Auto igniting:** Product is not selfigniting.
- **Danger of explosion:** Product does not present an explosion hazard.
- **Explosion limits:**
 - Lower:** 1.3 Vol %
 - Upper:** 9.5 Vol %
- **Vapor pressure at 20°C (68°F):** 0.32 hPa
- **Density at 20°C (68°F):** 1.03 g/cm³ (EN ISO 2811-1)
- **Solubility in / Miscibility with Water:** Fully miscible.
- **Solvent content:**
- **VOC content:** 100.0 %

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **Dangerous reactions** No dangerous reactions known.
- **Dangerous products of decomposition:** No dangerous decomposition products known.

11 Toxicological information

- **Acute toxicity:**
- **LD/LC50 values that are relevant for classification:**
- 872-50-4 N-METHYL-2-PYRROLIDON**
- Oral LD50 3600 mg/kg (rat)
- Dermal LD50 8000 mg/kg (rbt)
- Inhalative LC50/4h >5.1 mg/l (rat)
- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Irritant

12 Ecological information

- **General notes:**
Water hazard class 1 (Self-assessment): slightly hazardous for water

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Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

13 Disposal considerations

· **Product:**

· **Recommendation:**

Must be specially treated adhering to official regulations.

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· **Uncleaned packagings:**

· **Recommendation:** Disposal must be made according to official regulations.

· **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport information

· **DOT regulations:**

· **Hazard class:** -

· **Land transport ADR/RID (cross-border):**

· **ADR/RID class:** -

· **Maritime transport IMDG:**

· **IMDG Class:** -

· **Marine pollutant:** No

· **Air transport ICAO-TI and IATA-DGR:**

· **ICAO/IATA Class:** -

· **UN "Model Regulation":** -

15 Regulations

· **Sara**

· **Section 355 (extremely hazardous substances):**

872-50-4 N-METHYL-2-PYRROLIDON

· **Section 313 (Specific toxic chemical listings):**

None of the ingredients is listed.

· **TSCA (Toxic Substances Control Act):**

All ingredients are listed or are not required to be listed on the TSCA inventory.

· **Proposition 65**

· **Chemicals known to cause cancer:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**

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· **Carcinogenicity categories**

· **IARC (International Agency for Research on Cancer)**

None of the ingredients is listed.

· **NTP (National Toxicology Program)**

872-50-4 N-METHYL-2-PYRROLIDON: NIEHS U.S. CPSC 1988

· **Product related hazard informations:**

The product has been marked in accordance with national laws.

The product has been classified and marked in accordance with directives on hazardous materials.

· **Hazard symbols:**



Xi Irritant

· **Risk phrases:**

Irritating to eyes and skin.

· **Safety phrases:**

Keep out of the reach of children.

Do not breathe fumes / aerosol

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

Do not empty into drains.

Wear suitable gloves.

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

This material and its container must be disposed of as hazardous waste.

· **National regulations:**

The product is subject to be labeled according with the prevailing version of the regulations on hazardous substances.

· **Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.**

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Department issuing MSDS: Industrial Safety Department.**

· **Contact: Dr. Thomas Wieland**

· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises Dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement internationale concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

LD50: Lethal dose, 50 percent