

## AP Soak 130

Cured resin cleaning solvent.

### SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: AP Soak 130  
 MANUFACTURER: Alchemy-Spetec  
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Identification of the substance or preparation:

Synonyms: 1-methylpyrrolidinone, 1-methyl-2-pyrrolidinone, M-pyrol, 1-methylpyrrolidone, NMP, pyrrol-M, N-methyl-2-pyrrolidone, N-pyrrollidinone

CAS no.	:	000872-50-4	NFPA code	:	2-1-0
EC index no.	:	606-021-00-7	Molecular weight	:	99.13
EINECS no.	:	212-828-1	Formula	:	C5H9NO
RTECS no.	:	UY5790000			

### SECTION 2. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient Name	CAS #	Conc. in %	Hazard class.	Risks (R-phrases)
N-methylpyrrolidone	872-50-4	100	Xi	36/38

### SECTION 3. HAZARDS IDENTIFICATION

#### POTENTIAL HEALTH EFFECTS

Irritating to eyes and skin.

### SECTION 4. FIRST AID MEASURES

Eye contact:

- Rinse immediately with plenty of water for 15 minutes
- Do not apply neutralizing agents
- Consult a doctor/medical service if irritation persists

Skin contact:

- Wash immediately with lots of water and soap for 15 minutes
- Remove clothing before washing
- Do not apply (chemical) neutralizing agents
- Consult a doctor/medical service if irritation persists

After inhalation:

- Remove the victim into fresh air
- Unconscious: maintain adequate airway and respiration
- Consult a doctor/medical service if breathing problems develop

After ingestion:

- Immediately give lots of water to drink
- Never give water to an unconscious person
- Consult a doctor/medical service if you feel unwell

**SECTION 5. FIRE FIGHTING MEASURES**

Suitable extinguishing media:

- Water spray
- Alcohol foam
- BC powder
- Carbon dioxide

Unsuitable extinguishing media:

- Solid water jet ineffective as extinguishing medium

Special exposure hazards:

- Material presenting a fire hazard
- On heating/burning: release of toxic and corrosive gases/vapours (nitrous vapours, carbon monoxide, carbon dioxide)

Instructions:

- Cool tanks/drums with water spray/remove them into safety
- Dilute toxic gases with water spray

Special protective equipment for firefighters:

- Heat/fire exposure: compressed air/

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal protection:

- Eye protection: Safety glasses
- Hand protection: Gloves
- Skin protection: Protective clothing
- Materials for protective clothing: Butyl rubber, Polyethylene
- Respiratory protection: High vapour concentration: gas mask with filter A

Environmental precautions:

- Contain leaking substance, pump over in suitable containers
- Plug the leak, cut off the supply

Clean-up:

- Take up liquid spill into inert absorbent material, e.g.: sand, earth, vermiculite
- Scoop absorbed substance into closing containers
- Clean contaminated surfaces with an excess of water
- Wash clothing and equipment after handling

**SECTION 7. HANDLING AND STORAGE**

Handling:

- Observe normal hygiene standards
- Use earthed equipment
- Handle and open the container with care
- Remove contaminated clothing immediately
- Clean contaminated clothing

Storage:

- Keep container tightly closed
- Store in a cool area
- Store in a dry area
- Keep away from: heat sources, oxidizing agents, reducing agents, acids, bases

Storage temperature: 2/8 °C

- 7.3 Materials for packaging:  
 - Suitable : steel, stainless steel, nickel, glass  
 - Avoid : aluminium, synthetic material

## SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Recommended engineering controls:  
 - Work under local exhaust/ventilation

Sampling methods:  
 - 1-Methyl-2-Pyrrolidinone OSHA CSI

Exposure limits:

TLV-TWA	:		mg/m <sup>3</sup>		ppm
TLV-STEL	:		mg/m <sup>3</sup>		ppm
OES-LTEL	:	103	mg/m <sup>3</sup>	25	ppm
OES-STEL	:	309	mg/m <sup>3</sup>	75	ppm
MAK	:	80 d	mg/m <sup>3</sup>	19 d	ppm
MAC-TGG 8h	:	80 d	mg/m <sup>3</sup>		
MAC-TGG 15 min.	:		mg/m <sup>3</sup>		
VME-8h	:		mg/m <sup>3</sup>		ppm
VLE-15 min.	:		mg/m <sup>3</sup>		ppm
GWBB-8h	:		mg/m <sup>3</sup>		ppm
GWK-15 min.	:		mg/m <sup>3</sup>		ppm

d = damp (vapor)

Personal protection:

- Eye protection: Safety glasses
- Hand protection: Gloves
- Skin protection: Protective clothing
- Materials for protective clothing: Butyl rubber, Polyethylene
- Respiratory protection: High vapour concentration: gas mask with filter A

## SECTION 9. PHYSICAL & CHEMICAL PROPERTIES

Appearance (at 20°C)	:	Liquid
Odour	:	Amine
Colour	:	Colourless to light-yellow
pH value	:	8/10
Boiling point/boiling range	:	202 °C
Melting point/melting range	:	-24 °C
Flashpoint	:	91 °C
Auto-ignition point	:	270 °C
Explosion limits	:	1.3/9.5 vol% ( °C)
Vapour pressure (at 20°C)	:	0.4 hPa

Relative density (at 20°C)	:	1.0
Water solubility	:	COMPLETELY
Soluble in	:	Ethanol, ether, acetone, aromatic hydrocarbons, chloroform, ethylacetate
Relative vapour density	:	3.4
Saturation concentration	:	1.2 g/m <sup>3</sup>
Viscosity	:	0.0017 Pa.s

## SECTION 10. CHEMICAL STABILITY & REACTIVITY INFORMATION

### Stability:

- Hygroscopic
- Unstable on exposure to light

### Reactivity/Hazardous decomposition products:

- On heating/burning: release of toxic and corrosive gases/vapours nitrous vapours, carbon monoxide, carbon dioxide
- Reacts exothermically with (some) acids/bases
- Reacts violently with (strong) oxidizers: (increased) risk of fire/explosion
- Oxidizes slowly on exposure to air: peroxidation resulting in increased fire or explosion risk

### Conditions/materials to avoid:

- Heat sources, oxidizing agents, reducing agents, acids, bases

## SECTION 11. TOXICOLOGICAL INFORMATION

### Acute toxicity:

- LD50 oral rat	:	3914	mg/kg
- LD50 dermal rat	:	7000	mg/kg
- LD50 dermal rabbit	:	8000	mg/kg
- LC50 inhalation rat	:	> 5.1	mg/l/4 h

### Chronic toxicity:

- EC carc. cat.	:	not listed
- EC muta. cat.	:	not listed
- EC repr. cat.	:	not listed

- Carcinogenicity (TLV)	:	not listed
- Carcinogenicity (MAC)	:	not listed
- Carcinogenicity (VME)	:	not listed
- Carcinogenicity (MEL)	:	not listed

- Carcinogenicity (MAK)	:	not listed
- Mutagenicity (MAK)	:	not listed
- Teratogenicity (MAK)	:	C

- IARC classification	:	not listed
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- Obligatory medical control (ARAB-RGPT Art. 124):  
 group: I                      number: 23.4

Routes of exposure:    ingestion, inhalation, eyes and skin

Acute effects/symptoms:

**AFTER INHALATION**

- Dry/sore throat
- Coughing

**AFTER INGESTION**

- Practically toxic if swallowed
- Nausea
- Vomiting
- Irritation of the gastric/intestinal mucosa

**AFTER SKIN CONTACT**

- Substance is absorbed through the skin
- Non-toxic in contact with skin
- Tingling/irritation of the skin

**AFTER EYE CONTACT**

- Irritation of the eye tissue

Chronic effects:

- No teratogenic risk at exposure level lower than MAK value

**ON CONTINUOUS/REPEATED EXPOSURE/CONTACT:**

- Dry skin
- Swelling of the skin
- Tingling/irritation of the skin

**SECTION 12. ECOLOGICAL INFORMATION**

Mobility:

- Volatile organic compounds (VOC): N.D.
- Slightly volatile
- Soluble in water

Biodegradation:

- soil:	T <sub>1/2</sub>	:	2/15	days
	BOD5	:	1.07	g O <sub>2</sub> /g substance
	COD	:	1.56	g O <sub>2</sub> /g substance

- water: - Readily biodegradable in water
- test: >90% ,OECD 301E

Bioaccumulation:	- log Pow	:	-0.7/-0.46
	- BCF	:	N.D.

Aquatic toxicity:

- LC50 (96 h)	:	3048 mg/l (SALMO GAIARDNERI)
- EC50 (48 h)	:	4897 mg/l (DAPHNIA MAGNA)
- EC50	:	>500 mg/l (SCENEDESMUS SUBSPICATUS)

Other information:

- WGK: 1 (002)
- Effect on the ozone layer : N.D.
- Waste water purification : Harmless to activated sludge at low concentration

**SECTION 13. DISPOSAL CONSIDERATIONS**

Provisions relating to waste:

- Waste code (EC): N.D.
- Waste material code (Flanders): 015/034
- Waste code (Germany): 55370
- KCA (the Netherlands): category III
- BAGA (Netherlands): C.16
- Hazardous waste (91/689/EC)

Disposal methods:

- Recycle by distillation
- Remove to an authorized waste incinerator for solvents
- Obtain the consent of pollution control authorities before discharging to wastewater treatment plants
- Do not discharge into surface water

**SECTION 14. TRANSPORTATION INFORMATION**

Proper shipping name: N.A.

Transport by road/rail (ADR/RID): N.A.

- Danger code: -
- Danger labels on tanks : -
- on packages : -

Substance identification number (UN number): N.A.

Packing: -

Maritime transport (IMDG code): N.A.

- EMS : -
- MFAG : -
- Marine pollutant : -

Inland navigation (ADNR) : N.A.

Air freight (ICAO) : N.A.

Instruction "passenger": -

Instruction "cargo": -

Other information: not restricted for any mode of international transport

**SECTION 15. REGULATORY INFORMATION**

Labelling in accordance with EC directives 67/548/EEC and 1999/45/EEC



Irritant

R36/38 : Irritating to eyes and skin

S(02) : (Keep out of reach of children)

S41 : In case of fire and/or explosion do not breathe fumes

S64 : If swallowed, rinse mouth with water (only if the person is conscious)

**SECTION 16. OTHER INFORMATION**

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

N.A. = NOT APPLICABLE  
 N.D. = NOT DETERMINED  
 \* = INTERNAL CLASSIFICATION

**WGK:**

- 001 : Internal classification
- 002 : Classification in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 17 May 1999
- 003 : Classification based on R phrases in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 17 May 1999
- 004 : Classification based on the components in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 17 May 1999

**Exposure limits:**

TLV : Threshold Limit Value - ACGIH USA 1999  
 OES : Occupational Exposure Standards - United Kingdom 1999  
 MEL : Maximum Exposure Limits - United Kingdom 1999  
 MAK : Maximale Arbeitsplatzkonzentrationen - Germany 1999  
 TRK : Technische Richtkonzentrationen - Germany 1999  
 MAC : Maximale aanvaarde concentratie - The Netherlands 2000  
 VME : Valeurs limites de Moyenne d'Exposition - France 1999  
 VLE : Valeurs limites d'Exposition à court terme - France 1999  
 GWBB : Grenswaarde beroepsmatige blootstelling - Belgium 1998  
 GWK : Grenswaarde kortstondige blootstelling - Belgium 1998

**PREPARATION INFORMATION:**

March, 2016

This SDS is on a three year review cycle. If the date on this sheet is older than three years please contact Alchemy-Spetec for an updated SDS.

**DISCLAIMER:**

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