

# ***Chem-Impex International Inc.***

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## **SAFETY DATA SHEET**

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### **SECTION 1. CHEMICAL IDENTIFICATION**

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|                                 |                                                                            |
|---------------------------------|----------------------------------------------------------------------------|
| CATALOG #:                      | 26863                                                                      |
| NAME:                           | <i>N</i> -Vinyl-2-pyrrolidone<br>Stabilized with hydroquinone methyl ether |
| SYNONYMS:                       | 1-Vinyl-2-pyrrolidinone<br>1-Vinylpyrrolidin-2-one                         |
| 24 HOUR EMERGENCY<br>TELEPHONE: | (800) 535-5053(USA)<br>352-323-3500 (INTERNATIONAL)                        |
| TO REQUEST AN MSDS:             | (800) 869-9290                                                             |
| CUSTOMER<br>SERVICE:            | (630) 766-2112                                                             |

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### **SECTION 2. HAZARDS IDENTIFICATION**

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#### **CLASSIFICATION OF THE SUBSTANCE OR MIXTURE**

##### **GHS CLASSIFICATION IN ACCORDANCE WITH 29 CFR 1910 (OSHA HCS)**

ACUTE TOXICITY, ORAL (CATEGORY 4), H302

ACUTE TOXICITY, INHALATION (CATEGORY 4), H332

ACUTE TOXICITY, DERMAL (CATEGORY 3), H311

SERIOUS EYE DAMAGE (CATEGORY 1), H318  
CARCINOGENICITY (CATEGORY 2), H351  
SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (CATEGORY 2), H371  
SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (CATEGORY 3),  
RESPIRATORY SYSTEM, H335

FOR THE FULL TEXT OF THE H-STATEMENTS MENTIONED IN THIS SECTION, SEE  
SECTION 16.

**GHS LABEL ELEMENTS, INCLUDING PRECAUTIONARY STATEMENTS  
PICTOGRAM**



SIGNAL WORD DANGER

**HAZARD STATEMENT(S)**

H302 + H332 HARMFUL IF SWALLOWED OR IF INHALED  
H311 TOXIC IN CONTACT WITH SKIN.  
H318 CAUSES SERIOUS EYE DAMAGE.  
H335 MAY CAUSE RESPIRATORY IRRITATION.  
H351 SUSPECTED OF CAUSING CANCER.  
H371 MAY CAUSE DAMAGE TO ORGANS.

**PRECAUTIONARY STATEMENT(S)**

P201 OBTAIN SPECIAL INSTRUCTIONS BEFORE USE.  
P202 DO NOT HANDLE UNTIL ALL SAFETY PRECAUTIONS HAVE  
BEEN READ AND UNDERSTOOD.  
P260 DO NOT BREATHE DUST/ FUME/ GAS/ MIST/ VAPOURS/  
SPRAY.  
P264 WASH SKIN THOROUGHLY AFTER HANDLING.  
P270 DO NOT EAT, DRINK OR SMOKE WHEN USING THIS  
PRODUCT.  
P271 USE ONLY OUTDOORS OR IN A WELL-VENTILATED AREA.  
P280 WEAR PROTECTIVE GLOVES/ EYE PROTECTION/ FACE  
PROTECTION.  
P301 + P312 IF SWALLOWED: CALL A POISON CENTER OR DOCTOR/  
PHYSICIAN IF YOU FEEL UNWELL.  
P302 + P352 IF ON SKIN: WASH WITH PLENTY OF SOAP AND WATER.  
P304 + P340 IF INHALED: REMOVE VICTIM TO FRESH AIR AND KEEP AT  
REST IN A POSITION COMFORTABLE FOR BREATHING.  
P305 + P351 + P338 IF IN EYES: RINSE CAUTIOUSLY WITH WATER FOR SEVERAL  
MINUTES. REMOVE CONTACT LENSES, IF PRESENT AND  
EASY TO DO. CONTINUE RINSING.  
P309 + P311 IF EXPOSED OR IF YOU FEEL UNWELL: CALL A POISON  
CENTER OR DOCTOR/ PHYSICIAN.  
P310 IMMEDIATELY CALL A POISON CENTER OR DOCTOR/  
PHYSICIAN.  
P322 SPECIFIC MEASURES (SEE SUPPLEMENTAL FIRST AID  
INSTRUCTIONS ON THIS LABEL).  
P330 RINSE MOUTH.  
P361 REMOVE/TAKE OFF IMMEDIATELY ALL CONTAMINATED  
CLOTHING.  
P363 WASH CONTAMINATED CLOTHING BEFORE REUSE.  
P403 + P233 STORE IN A WELL-VENTILATED PLACE. KEEP CONTAINER  
TIGHTLY CLOSED.

P405  
P501

STORE LOCKED UP.  
DISPOSE OF CONTENTS/ CONTAINER TO AN APPROVED  
WASTE DISPOSAL PLANT.

**HAZARDS NOT  
OTHERWISE  
CLASSIFIED (HNOC)  
OR NOT COVERED  
BY GHS**

NONE

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### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

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MF: C<sub>6</sub>H<sub>9</sub>NO

MW: 111.14

CAS-NO. 88-12-0

PURITY: ≥ 99% (GC)

#### HAZARDOUS COMPONENTS

| COMPONENT                    | CLASSIFICATION                                                                                                            | CONCENTRATION |
|------------------------------|---------------------------------------------------------------------------------------------------------------------------|---------------|
| <b>1-VINYL-2-PYRROLIDONE</b> |                                                                                                                           |               |
|                              | ACUTE TOX. 4; ACUTE TOX. 3;<br>EYE DAM. 1; CARC. 2; STOT SE<br>2; STOT SE 3; H302 + H332,<br>H311, H318, H335, H351, H371 | -             |

FOR THE FULL TEXT OF THE H-STATEMENTS MENTIONED IN THIS SECTION, SEE  
SECTION 16.

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### SECTION 4. FIRST-AID MEASURES

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#### DESCRIPTION OF FIRST AID MEASURES

**GENERAL ADVICE** CONSULT A PHYSICIAN. SHOW THIS SAFETY DATA  
SHEET TO THE DOCTOR IN ATTENDANCE.MOVE OUT  
OF DANGEROUS AREA.

**IF INHALED** IF BREATHED IN, MOVE PERSON INTO FRESH AIR. IF  
NOT BREATHING, GIVE ARTIFICIAL RESPIRATION.  
CONSULT A PHYSICIAN.

**IN CASE OF SKIN  
CONTACT** WASH OFF WITH SOAP AND PLENTY OF WATER. TAKE  
VICTIM IMMEDIATELY TO HOSPITAL. CONSULT A  
PHYSICIAN.

|                                                                                   |                                                                                                                     |
|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| <b>IN CASE OF EYE CONTACT</b>                                                     | RINSE THOROUGHLY WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES AND CONSULT A PHYSICIAN.                              |
| <b>IF SWALLOWED</b>                                                               | NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. RINSE MOUTH WITH WATER. CONSULT A PHYSICIAN.                 |
| <b>MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED</b>                | THE MOST IMPORTANT KNOWN SYMPTOMS AND EFFECTS ARE DESCRIBED IN THE LABELLING (SEE SECTION 2.2) AND/OR IN SECTION 11 |
| <b>INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED</b> | NO DATA AVAILABLE                                                                                                   |

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## **SECTION 5. FIRE AND EXPLOSION DATA**

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### **EXTINGUISHING MEDIA**

|                                                              |                                                                          |
|--------------------------------------------------------------|--------------------------------------------------------------------------|
| <b>SUITABLE EXTINGUISHING MEDIA</b>                          | USE WATER SPRAY, ALCOHOL-RESISTANT FOAM, DRY CHEMICAL OR CARBON DIOXIDE. |
| <b>SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE</b> | CARBON OXIDES, NITROGEN OXIDES (NOX)                                     |
| <b>ADVICE FOR FIREFIGHTERS</b>                               | WEAR SELF CONTAINED BREATHING APPARATUS FOR FIRE FIGHTING IF NECESSARY.  |
| <b>FURTHER INFORMATION</b>                                   | NO DATA AVAILABLE                                                        |

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## **SECTION 6. ACCIDENTAL RELEASE MEASURES**

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|                                                                            |                                                                                                                                                                             |
|----------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES</b> | WEAR RESPIRATORY PROTECTION. AVOID BREATHING VAPOURS, MIST OR GAS. ENSURE ADEQUATE VENTILATION. EVACUATE PERSONNEL TO SAFE AREAS.<br>FOR PERSONAL PROTECTION SEE SECTION 8. |
| <b>ENVIRONMENTAL PRECAUTIONS</b>                                           | PREVENT FURTHER LEAKAGE OR SPILLAGE IF SAFE TO DO SO. DO NOT LET PRODUCT ENTER DRAINS.                                                                                      |

**METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP**

SOAK UP WITH INERT ABSORBENT MATERIAL AND DISPOSE OF AS HAZARDOUS WASTE. KEEP IN SUITABLE, CLOSED CONTAINERS FOR DISPOSAL.

**REFERENCE TO OTHER SECTIONS**

FOR DISPOSAL SEE SECTION 13.

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**SECTION 7. HANDLING AND STORAGE**

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**PRECAUTIONS FOR SAFE HANDLING**

AVOID CONTACT WITH SKIN AND EYES. AVOID INHALATION OF VAPOUR OR MIST. FOR PRECAUTIONS SEE SECTION 2.2.

**CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES**

KEEP CONTAINER TIGHTLY CLOSED IN A DRY AND WELL-VENTILATED PLACE. CONTAINERS WHICH ARE OPENED MUST BE CAREFULLY RESEALED AND KEPT UPRIGHT TO PREVENT LEAKAGE.

**SPECIFIC END USE(S)**

APART FROM THE USES MENTIONED IN SECTION 1.2 NO OTHER SPECIFIC USES ARE STIPULATED

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**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

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**CONTROL PARAMETERS**

**COMPONENTS WITH WORKPLACE CONTROL PARAMETERS**

| COMPONENT             | CAS-NO. | VALUE                                                                        | CONTROL PARAMETERS | BASIS                                   |
|-----------------------|---------|------------------------------------------------------------------------------|--------------------|-----------------------------------------|
| 1-VINYL-2-PYRROLIDONE | 88-12-0 | TWA                                                                          | 0.05 PPM           | USA. ACGIH THRESHOLD LIMIT VALUES (TLV) |
|                       | REMARKS | LIVER DAMAGE<br>CONFIRMED ANIMAL CARCINOGEN WITH UNKNOWN RELEVANCE TO HUMANS |                    |                                         |

**EXPOSURE CONTROLS**

**APPROPRIATE ENGINEERING CONTROLS**

AVOID CONTACT WITH SKIN, EYES AND CLOTHING. WASH HANDS BEFORE BREAKS AND IMMEDIATELY AFTER HANDLING THE PRODUCT.

**PERSONAL PROTECTIVE EQUIPMENT**

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>EYE/FACE PROTECTION</b> | TIGHTLY FITTING SAFETY GOGGLES. FACESHIELD (8-INCH MINIMUM). USE EQUIPMENT FOR EYE PROTECTION TESTED AND APPROVED UNDER APPROPRIATE GOVERNMENT STANDARDS SUCH AS NIOSH (US) OR EN 166(EU).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>SKIN PROTECTION</b>     | <p>HANDLE WITH GLOVES. GLOVES MUST BE INSPECTED PRIOR TO USE. USE PROPER GLOVE REMOVAL TECHNIQUE (WITHOUT TOUCHING GLOVE'S OUTER SURFACE) TO AVOID SKIN CONTACT WITH THIS PRODUCT. DISPOSE OF CONTAMINATED GLOVES AFTER USE IN ACCORDANCE WITH APPLICABLE LAWS AND GOOD LABORATORY PRACTICES. WASH AND DRY HANDS.</p> <p>FULL CONTACT<br/> MATERIAL: BUTYL-RUBBER<br/> MINIMUM LAYER THICKNESS: 0.3 MM<br/> BREAK THROUGH TIME: 480 MIN<br/> MATERIAL TESTED:BUTOJECT (KCL 897 , SIZE M)</p> <p>SPLASH CONTACT<br/> MATERIAL: NITRILE RUBBER<br/> MINIMUM LAYER THICKNESS: 0.11 MM<br/> BREAK THROUGH TIME: 30 MIN<br/> MATERIAL TESTED:DERMATRIL (KCL 740, SIZE M)</p> <p>IF USED IN SOLUTION, OR MIXED WITH OTHER SUBSTANCES, AND UNDER CONDITIONS WHICH DIFFER FROM EN 374, CONTACT THE SUPPLIER OF THE CE APPROVED GLOVES. THIS RECOMMENDATION IS ADVISORY ONLY AND MUST BE EVALUATED BY AN INDUSTRIAL HYGIENIST AND SAFETY OFFICER FAMILIAR WITH THE SPECIFIC SITUATION OF ANTICIPATED USE BY OUR CUSTOMERS. IT SHOULD NOT BE CONSTRUED AS OFFERING AN APPROVAL FOR ANY SPECIFIC USE SCENARIO.</p> |
| <b>BODY PROTECTION</b>     | COMPLETE SUIT PROTECTING AGAINST CHEMICALS, THE TYPE OF PROTECTIVE EQUIPMENT MUST BE SELECTED ACCORDING TO THE CONCENTRATION AND AMOUNT OF THE DANGEROUS SUBSTANCE AT THE SPECIFIC WORKPLACE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

**RESPIRATORY  
PROTECTION**

WHERE RISK ASSESSMENT SHOWS AIR-PURIFYING RESPIRATORS ARE APPROPRIATE USE A FULL-FACE RESPIRATOR WITH MULTI- PURPOSE COMBINATION (US) OR TYPE ABEK (EN 14387) RESPIRATOR CARTRIDGES AS A BACKUP TO ENGINEERING CONTROLS. IF THE RESPIRATOR IS THE SOLE MEANS OF PROTECTION, USE A FULL-FACE SUPPLIED AIR RESPIRATOR. USE RESPIRATORS AND COMPONENTS TESTED AND APPROVED UNDER APPROPRIATE GOVERNMENT STANDARDS SUCH AS NIOSH (US) OR CEN (EU).

**CONTROL OF  
ENVIRONMENTAL  
EXPOSURE**

PREVENT FURTHER LEAKAGE OR SPILLAGE IF SAFE TO DO SO. DO NOT LET PRODUCT ENTER DRAINS.

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**SECTION 9.      PHYSICAL AND CHEMICAL PROPERTIES**

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**INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES**

|                                                    |                                                                   |
|----------------------------------------------------|-------------------------------------------------------------------|
| APPEARANCE                                         | Colorless to light yellow liquid or clear liquid                  |
| ODOUR                                              | NO DATA AVAILABLE                                                 |
| ODOUR THRESHOLD                                    | NO DATA AVAILABLE                                                 |
| PH                                                 | NO DATA AVAILABLE                                                 |
| MELTING<br>POINT/FREEZING POINT                    |                                                                   |
| INITIAL BOILING POINT<br>AND BOILING RANGE         |                                                                   |
| FLASH POINT                                        |                                                                   |
| EVAPORATION RATE                                   | NO DATA AVAILABLE                                                 |
| FLAMMABILITY (SOLID,<br>GAS)                       | NO DATA AVAILABLE                                                 |
| UPPER/LOWER<br>FLAMMABILITY OR<br>EXPLOSIVE LIMITS | UPPER EXPLOSION LIMIT: 10 %(V)<br>LOWER EXPLOSION LIMIT: 1.4 %(V) |
| VAPOUR PRESSURE                                    | NO DATA AVAILABLE                                                 |
| VAPOUR DENSITY                                     | 3.84 - (AIR = 1.0)                                                |
| RELATIVE DENSITY                                   | 1.03 - 1.04 g/mL                                                  |
| WATER SOLUBILITY                                   | NO DATA AVAILABLE                                                 |
| PARTITION COEFFICIENT:<br>N- OCTANOL/WATER         | NO DATA AVAILABLE                                                 |
| AUTO-IGNITION<br>TEMPERATURE                       | NO DATA AVAILABLE                                                 |
| DECOMPOSITION<br>TEMPERATURE                       | NO DATA AVAILABLE                                                 |
| VISCOSITY                                          | NO DATA AVAILABLE                                                 |
| EXPLOSIVE PROPERTIES                               | NO DATA AVAILABLE                                                 |
| OXIDIZING PROPERTIES                               | NO DATA AVAILABLE                                                 |

**OTHER SAFETY INFORMATION**

|                            |                    |
|----------------------------|--------------------|
| RELATIVE VAPOUR<br>DENSITY | 3.84 - (AIR = 1.0) |
|----------------------------|--------------------|

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**SECTION 10. STABILITY AND REACTIVITY**

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|                                           |                                                                                         |
|-------------------------------------------|-----------------------------------------------------------------------------------------|
| <b>REACTIVITY</b>                         | NO DATA AVAILABLE                                                                       |
| <b>CHEMICAL STABILITY</b>                 | STABLE UNDER RECOMMENDED STORAGE CONDITIONS.                                            |
| <b>POSSIBILITY OF HAZARDOUS REACTIONS</b> | NO DATA AVAILABLE                                                                       |
| <b>CONDITIONS TO AVOID</b>                | NO DATA AVAILABLE                                                                       |
| <b>INCOMPATIBLE MATERIALS</b>             | STRONG OXIDIZING AGENTS                                                                 |
| <b>HAZARDOUS DECOMPOSITION PRODUCTS</b>   | OTHER DECOMPOSITION PRODUCTS - NO DATA AVAILABLE<br>IN THE EVENT OF FIRE: SEE SECTION 5 |

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**SECTION 11. TOXICOLOGICAL INFORMATION**

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**INFORMATION ON TOXICOLOGICAL EFFECTS**

|                                          |                                                                                                    |
|------------------------------------------|----------------------------------------------------------------------------------------------------|
| <b>ACUTE TOXICITY</b>                    | LD50 ORAL - RAT - 1,470 MG/KG<br>INHALATION: NO DATA AVAILABLE<br>LD50 DERMAL - RABBIT - 560 MG/KG |
| <b>SKIN CORROSION/IRRITATION</b>         | NO DATA AVAILABLE                                                                                  |
| <b>SERIOUS EYE DAMAGE/EYE IRRITATION</b> | EYES - RABBIT<br>RESULT: SEVERE EYE IRRITATION                                                     |
| <b>RESPIRATORY OR SKIN SENSITISATION</b> | NO DATA AVAILABLE                                                                                  |
| <b>GERM CELL MUTAGENICITY</b>            | NO DATA AVAILABLE                                                                                  |

|                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>CARCINOGENICITY</b>                                            | <p>CARCINOGENICITY - RAT - INHALATION<br/> TUMORIGENIC:CARCINOGENIC BY RTECS CRITERIA.<br/> SENSE ORGANS AND SPECIAL SENSES (NOSE, EYE,<br/> EAR, AND TASTE):OLFACTION:TUMORS.<br/> LIVER:TUMORS.<br/> THIS PRODUCT IS OR CONTAINS A COMPONENT THAT<br/> HAS BEEN REPORTED TO BE POSSIBLY<br/> CARCINOGENIC BASED ON ITS IARC, ACGIH, NTP, OR<br/> EPA CLASSIFICATION.<br/> LIMITED EVIDENCE OF CARCINOGENICITY IN<br/> ANIMAL STUDIES</p> |
| IARC:                                                             | 3 - GROUP 3: NOT CLASSIFIABLE AS TO ITS<br>CARCINOGENICITY TO HUMANS (1-VINYL-2-<br>PYRROLIDONE)                                                                                                                                                                                                                                                                                                                                           |
| NTP:                                                              | NO COMPONENT OF THIS PRODUCT PRESENT AT<br>LEVELS GREATER THAN OR EQUAL TO 0.1% IS<br>IDENTIFIED AS A KNOWN OR ANTICIPATED<br>CARCINOGEN BY NTP.                                                                                                                                                                                                                                                                                           |
| OSHA:                                                             | NO COMPONENT OF THIS PRODUCT PRESENT AT<br>LEVELS GREATER THAN OR EQUAL TO 0.1% IS<br>IDENTIFIED AS A CARCINOGEN OR POTENTIAL<br>CARCINOGEN BY OSHA.                                                                                                                                                                                                                                                                                       |
| <b>REPRODUCTIVE TOXICITY</b>                                      | NO DATA AVAILABLE                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>SPECIFIC TARGET ORGAN<br/>TOXICITY - SINGLE<br/>EXPOSURE</b>   | MAY CAUSE DAMAGE TO ORGANS. MAY CAUSE<br>RESPIRATORY IRRITATION.                                                                                                                                                                                                                                                                                                                                                                           |
| <b>SPECIFIC TARGET ORGAN<br/>TOXICITY - REPEATED<br/>EXPOSURE</b> | NO DATA AVAILABLE                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>ASPIRATION HAZARD</b>                                          | NO DATA AVAILABLE                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>ADDITIONAL<br/>INFORMATION</b>                                 | <p>RTECS: UY6107000<br/> TO THE BEST OF OUR KNOWLEDGE, THE CHEMICAL,<br/> PHYSICAL, AND TOXICOLOGICAL PROPERTIES HAVE<br/> NOT BEEN THOROUGHLY INVESTIGATED.<br/> STOMACH - IRREGULARITIES - BASED ON HUMAN<br/> EVIDENCE</p>                                                                                                                                                                                                              |

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## SECTION 12. ECOLOGICAL INFORMATION

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|                                          |                   |
|------------------------------------------|-------------------|
| <b>TOXICITY</b>                          | NO DATA AVAILABLE |
| <b>PERSISTENCE AND<br/>DEGRADABILITY</b> | NO DATA AVAILABLE |

|                                               |                                                                                                  |
|-----------------------------------------------|--------------------------------------------------------------------------------------------------|
| <b>BIOACCUMULATIVE<br/>POTENTIAL</b>          | NO DATA AVAILABLE                                                                                |
| <b>MOBILITY IN SOIL</b>                       | NO DATA AVAILABLE                                                                                |
| <b>RESULTS OF PBT AND<br/>VPVB ASSESSMENT</b> | PBT/VPVB ASSESSMENT NOT AVAILABLE AS<br>CHEMICAL SAFETY ASSESSMENT NOT<br>REQUIRED/NOT CONDUCTED |
| <b>OTHER ADVERSE EFFECTS</b>                  | NO DATA AVAILABLE                                                                                |

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## SECTION 13. DISPOSAL CONSIDERATIONS

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### WASTE TREATMENT METHODS

|                                   |                                                                                                                                                                                                                                                                                                      |
|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PRODUCT</b>                    | OFFER SURPLUS AND NON-RECYCLABLE SOLUTIONS TO A LICENSED DISPOSAL COMPANY. CONTACT A LICENSED PROFESSIONAL WASTE DISPOSAL SERVICE TO DISPOSE OF THIS MATERIAL. DISSOLVE OR MIX THE MATERIAL WITH A COMBUSTIBLE SOLVENT AND BURN IN A CHEMICAL INCINERATOR EQUIPPED WITH AN AFTERBURNER AND SCRUBBER. |
| <b>CONTAMINATED<br/>PACKAGING</b> | DISPOSE OF AS UNUSED PRODUCT.                                                                                                                                                                                                                                                                        |

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## SECTION 14. TRANSPORT INFORMATION

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### DOT (US)

|                           |                                                                                                           |
|---------------------------|-----------------------------------------------------------------------------------------------------------|
| PROPER SHIPPING NAME:     | TOXIC, LIQUIDS, ORGANIC, N.O.S.( <i>N</i> -Vinyl-2-pyrrolidone Stabilized with hydroquinone methyl ether) |
| UN NUMBER:                | 2810                                                                                                      |
| CLASS:                    | 6.1                                                                                                       |
| PACKING GROUP:            | III                                                                                                       |
| REPORTABLE QUANTITY (RQ): |                                                                                                           |
| MARINE POLLUTANT:         | NO                                                                                                        |
| POISON INHALATION HAZARD: | NO                                                                                                        |

### IMDG

|                       |                                                                                                         |
|-----------------------|---------------------------------------------------------------------------------------------------------|
| PROPER SHIPPING NAME: | TOXIC LIQUID, ORGANIC, N.O.S.( <i>N</i> -Vinyl-2-pyrrolidone Stabilized with hydroquinone methyl ether) |
| UN NUMBER:            | 2810                                                                                                    |
| CLASS:                | 6.1                                                                                                     |
| PACKING GROUP:        | III                                                                                                     |
| EMS-NO:               | F-A, S-A                                                                                                |

|                       |                                                                                                          |
|-----------------------|----------------------------------------------------------------------------------------------------------|
| MARINE POLLUTANT:     | NO                                                                                                       |
| <b>IATA</b>           |                                                                                                          |
| PROPER SHIPPING NAME: | TOXIC LIQUID, ORGANIC, N.O.S.( <i>N</i> -Vinyl-2-pyrrolidone Stabililzed with hydroquinone methyl ether) |
| UN NUMBER:            | 2810                                                                                                     |
| CLASS:                | 6.1                                                                                                      |
| PACKING GROUP:        | III                                                                                                      |

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## SECTION 15. REGULATORY INFORMATION

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|                            |                                                                                                                   |
|----------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>SARA 302 COMPONENTS</b> | SARA 302: NO CHEMICALS IN THIS MATERIAL ARE SUBJECT TO THE REPORTING REQUIREMENTS OF SARA TITLE III, SECTION 302. |
|----------------------------|-------------------------------------------------------------------------------------------------------------------|

|                            |                                                                                                                                                                                             |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>SARA 313 COMPONENTS</b> | SARA 313: THIS MATERIAL DOES NOT CONTAIN ANY CHEMICAL COMPONENTS WITH KNOWN CAS NUMBERS THAT EXCEED THE THRESHOLD (DE MINIMIS) REPORTING LEVELS ESTABLISHED BY SARA TITLE III, SECTION 313. |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                             |                                            |
|-----------------------------|--------------------------------------------|
| <b>SARA 311/312 HAZARDS</b> | ACUTE HEALTH HAZARD, CHRONIC HEALTH HAZARD |
|-----------------------------|--------------------------------------------|

|                                               |                                                                   |
|-----------------------------------------------|-------------------------------------------------------------------|
| <b>MASSACHUSETTS RIGHT TO KNOW COMPONENTS</b> | NO COMPONENTS ARE SUBJECT TO THE MASSACHUSETTS RIGHT TO KNOW ACT. |
|-----------------------------------------------|-------------------------------------------------------------------|

### PENNSYLVANIA RIGHT TO KNOW COMPONENTS

|                                                                                | CAS-NO. | REVISION DATE |
|--------------------------------------------------------------------------------|---------|---------------|
| <i>N</i> -Vinyl-2-pyrrolidone<br>Stabililzed with hydroquinone<br>methyl ether | 88-12-0 | 3/1/2007      |

### NEW JERSEY RIGHT TO KNOW COMPONENTS

|                                                                                | CAS-NO. | REVISION DATE |
|--------------------------------------------------------------------------------|---------|---------------|
| <i>N</i> -Vinyl-2-pyrrolidone<br>Stabililzed with hydroquinone<br>methyl ether | 88-12-0 | 3/1/2007      |

|                                       |                                                                                                                                          |
|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| <b>CALIFORNIA PROP. 65 COMPONENTS</b> | THIS PRODUCT DOES NOT CONTAIN ANY CHEMICALS KNOWN TO STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS, OR ANY OTHER REPRODUCTIVE HARM. |
|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|

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## SECTION 16. OTHER INFORMATION

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### FULL TEXT OF H-STATEMENTS REFERRED TO UNDER SECTIONS 2 AND 3.

|            |                 |
|------------|-----------------|
| ACUTE TOX. | ACUTE TOXICITY  |
| CARC.      | CARCINOGENICITY |

|             |                                    |
|-------------|------------------------------------|
| EYE DAM.    | SERIOUS EYE DAMAGE                 |
| H302        | HARMFUL IF SWALLOWED.              |
| H302 + H332 | HARMFUL IF SWALLOWED OR IF INHALED |
| H311        | TOXIC IN CONTACT WITH SKIN.        |
| H318        | CAUSES SERIOUS EYE DAMAGE.         |
| H332        | HARMFUL IF INHALED.                |
| H335        | MAY CAUSE RESPIRATORY IRRITATION.  |
| H351        | SUSPECTED OF CAUSING CANCER.       |
| H371        | MAY CAUSE DAMAGE TO ORGANS.        |

#### HMIS RATING

|                        |   |
|------------------------|---|
| HEALTH HAZARD:         | 2 |
| CHRONIC HEALTH HAZARD: | * |
| FLAMMABILITY:          | 0 |
| PHYSICAL HAZARD        | 0 |

#### NFPA RATING

|                    |   |
|--------------------|---|
| HEALTH HAZARD:     | 2 |
| FIRE HAZARD:       | 0 |
| REACTIVITY HAZARD: | 0 |

#### MSDS LEGEND

|        |                                                           |
|--------|-----------------------------------------------------------|
| MW:    | MOLECULAR WEIGHT                                          |
| MF:    | MOLECULAR FORMULA                                         |
| VOC:   | VOLATILE ORGANIC COMPOUNDS                                |
| ACGIH: | AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS |
| CAS:   | CHEMICAL ABSTRACTS SERVICE REGISTRY NUMBER                |
| OSHA:  | OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION             |
| PEL:   | PERMISSIBLE EXPOSURE LIMIT (OSHA)                         |
| TLV:   | THRESHOLD LIMIT VALUE (ACGIH)                             |

#### IMPORTANT:

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