

## SAFETY DATA SHEET

### 1. Identification

<b>Product identifier</b>	<b>HumiSeal Stripper 1100</b>	
<b>Other means of identification</b>		
<b>Product code</b>	HumiSeal Stripper 1100	
<b>Recommended use</b>	Remover for Protective Coating	
<b>Recommended restrictions</b>	None known.	
<b>Manufacturer/Importer/Supplier/Distributor information</b>		
<b>Manufacturer</b>		
<b>Company name</b>	CHASE CORPORATION Zeta Drive Plant	
<b>Address</b>	201 Zeta Drive Pittsburgh, Pennsylvania 15238 United States	
<b>Telephone</b>	1-866-932-0800	
<b>E-mail</b>	Not available.	
<b>Emergency phone number</b>	1-800-424-9300 (+1)703-527-3887	Chemtrec, US Chemtrec, outside of US

### 2. Hazard(s) identification

<b>Physical hazards</b>	Flammable liquids	Category 4
<b>Health hazards</b>	Acute toxicity, inhalation	Category 3
	Serious eye damage/eye irritation	Category 2
<b>Environmental hazards</b>	Not classified.	
<b>OSHA defined hazards</b>	Not classified.	
<b>Label elements</b>		
<b>Hazard symbol</b>	None.	
<b>Signal word</b>	None.	
<b>Hazard statement</b>	Not available.	
<b>Precautionary statement</b>		
<b>Prevention</b>	Not available.	
<b>Response</b>	Not available.	
<b>Storage</b>	Not available.	
<b>Disposal</b>	Not available.	
<b>Hazard(s) not otherwise classified (HNOC)</b>	None known.	
<b>Supplemental information</b>	None.	

### 3. Composition/information on ingredients

#### Mixtures

Chemical name	Common name and synonyms	CAS number	%
N-Methylpyrrolidone		872-50-4	60 - < 70

Chemical name	Common name and synonyms	CAS number	%
gamma-Butyrolactone		96-48-0	20 - < 30
Cyclopentanecarboxaldehyde, 1-(1,1-dimethyl-2-propenyl)-		2228-95-7	1 - < 3
Poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydr oxy-, branched		68412-54-4	1 - < 3

\*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

#### 4. First-aid measures

<b>Inhalation</b>	Not available.
<b>Skin contact</b>	Not available.
<b>Eye contact</b>	Not available.
<b>Ingestion</b>	Not available.
<b>Most important symptoms/effects, acute and delayed</b>	Not available.

#### 5. Fire-fighting measures

<b>Suitable extinguishing media</b>	Not available.
<b>Unsuitable extinguishing media</b>	Not available.
<b>Specific hazards arising from the chemical</b>	Not applicable.
<b>Special protective equipment and precautions for firefighters</b>	Not available.

#### 6. Accidental release measures

<b>Personal precautions, protective equipment and emergency procedures</b>	Not available.
<b>Methods and materials for containment and cleaning up</b>	Not available.
<b>Environmental precautions</b>	Not available.

#### 7. Handling and storage

<b>Precautions for safe handling</b>	Not available.
<b>Conditions for safe storage, including any incompatibilities</b>	Not available.

#### 8. Exposure controls/personal protection

##### Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

##### US. Workplace Environmental Exposure Level (WEEL) Guides

Components	Type	Value
N-Methylpyrrolidone (CAS 872-50-4)	TWA	40 mg/m <sup>3</sup>
		10 ppm

##### Biological limit values

##### ACGIH Biological Exposure Indices

Components	Value	Determinant	Specimen	Sampling Time
N-Methylpyrrolidone (CAS 872-50-4)	100 mg/l	5-Hydroxy-N-methyl-2-pyrrolidone	Urine	*

\* - For sampling details, please see the source document.

## Exposure guidelines

### US - California OELs: Skin designation

N-Methylpyrrolidone (CAS 872-50-4)

Can be absorbed through the skin.

### US WEEL Guides: Skin designation

N-Methylpyrrolidone (CAS 872-50-4)

Can be absorbed through the skin.

**Appropriate engineering controls** Not available.

## Individual protection measures, such as personal protective equipment

**Eye/face protection** Not available.

### Skin protection

**Hand protection** Not available.

**Other** Not available.

**Respiratory protection** Not available.

**Thermal hazards** Not available.

## 9. Physical and chemical properties

### Appearance

**Physical state** Liquid.

**Form** Not available.

**Color** Clear

**Odor** Mild Organic.

**Odor threshold** Not available.

**pH** Do not apply.

**Melting point/freezing point** -46.35 °F (-43.53 °C) estimated

**Initial boiling point and boiling range** 395.6 °F (202 °C) estimated

**Flash point** 197.6 °F (92.0 °C)

**Evaporation rate** Not available.

**Flammability (solid, gas)** Not available.

### Upper/lower flammability or explosive limits

**Flammability limit - lower (%)** Not available.

**Flammability limit - upper (%)** Not available.

**Explosive limit - lower (%)** Not available.

**Explosive limit - upper (%)** Not available.

**Vapor pressure** 0.5 hPa estimated

**Vapor density** Not available.

**Relative density** Not available.

### Solubility(ies)

**Solubility (water)** Soluble

**Partition coefficient (n-octanol/water)** Not available.

**Auto-ignition temperature** 655 °F (346.11 °C) estimated

**Decomposition temperature** Not available.

**Viscosity** Not available.

### Other information

**Density** 1.05 g/cm<sup>3</sup>

**Flammability class** Combustible IIIA estimated

**Miscible (water)** Soluble

**Percent volatile** 100 %

**Specific gravity** 1.05

VOC 100 %

## 10. Stability and reactivity

**Reactivity** Not available.  
**Chemical stability** Not available.  
**Possibility of hazardous reactions** Not available.  
**Conditions to avoid** Not available.  
**Incompatible materials** Not available.  
**Hazardous decomposition products** Not available.

## 11. Toxicological information

### Information on likely routes of exposure

**Inhalation** Not available.  
**Skin contact** Not available.  
**Eye contact** Not available.  
**Ingestion** Not available.

**Symptoms related to the physical, chemical and toxicological characteristics** Not available.

### Information on toxicological effects

#### Acute toxicity

Product	Species	Test Results
HumiSeal Stripper 1100		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Guinea pig	22560 mg/kg estimated
	Rabbit	12310 mg/kg estimated
<b>Inhalation</b>		
LC50	Rat	10.72 mg/l, 4 Hours estimated
<b>Oral</b>		
LD50	Guinea pig	2000 mg/kg estimated
	Mouse	3076 mg/kg estimated
		36 ml/kg estimated
	Rat	3045 mg/kg estimated
		6.462 ml/kg estimated
<b>Other</b>		
LD50	Mouse	81.9 mg/kg estimated
	Rat	119.2 mg/kg estimated

Components	Species	Test Results
gamma-Butyrolactone (CAS 96-48-0)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Guinea pig	5640 mg/kg
<b>Inhalation</b>		
LC50	Rat	> 2.68 mg/l, 4 Hours
<b>Oral</b>		
LD50	Rat	1540 mg/kg

Components	Species	Test Results
N-Methylpyrrolidone (CAS 872-50-4)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	8000 mg/kg
<b>Oral</b>		
LD50	Rat	3914 mg/kg
<b>Skin corrosion/irritation</b>	Not available.	
<b>Serious eye damage/eye irritation</b>	Not available.	
<b>Respiratory or skin sensitization</b>		
<b>Respiratory sensitization</b>	Not available.	
<b>Skin sensitization</b>	Not available.	
<b>Germ cell mutagenicity</b>	Not available.	
<b>Carcinogenicity</b>		
<b>IARC Monographs. Overall Evaluation of Carcinogenicity</b>		
gamma-Butyrolactone (CAS 96-48-0)	3 Not classifiable as to carcinogenicity to humans.	
<b>OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)</b>		
Not regulated.		
<b>US. National Toxicology Program (NTP) Report on Carcinogens</b>		
Not listed.		
<b>Reproductive toxicity</b>	Not available.	
<b>Specific target organ toxicity - single exposure</b>	Not available.	
<b>Specific target organ toxicity - repeated exposure</b>	Not available.	
<b>Aspiration hazard</b>	Not available.	
<b>12. Ecological information</b>		
<b>Ecotoxicity</b>	No ecotoxicity data noted for the ingredient(s).	
<b>Persistence and degradability</b>	Not available.	
<b>Bioaccumulative potential</b>	Not available.	
<b>Partition coefficient n-octanol / water (log Kow)</b>		
gamma-Butyrolactone	-0.64	
N-Methylpyrrolidone	-0.54	
<b>Mobility in soil</b>	Not available.	
<b>Other adverse effects</b>	Not available.	
<b>13. Disposal considerations</b>		
<b>Disposal instructions</b>	Not available.	
<b>Waste from residues / unused products</b>	Not available.	
<b>Contaminated packaging</b>	Not available.	
<b>14. Transport information</b>		
<b>DOT</b>		
Not regulated as dangerous goods.		
<b>IATA</b>		
Not regulated as dangerous goods.		
<b>IMDG</b>		
Not regulated as dangerous goods.		
<b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	Not available.	

## 15. Regulatory information

### US federal regulations

#### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

N-Methylpyrrolidone (CAS 872-50-4) 1.0 % Annual Export Notification required.

#### TSCA Chemical Action Plans, Chemicals of Concern

Poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydroxy-, branched (CAS 68412-54-4) Nonylphenol (NP) and Nonylphenol Ethoxylates (NPEs) Action Plan

#### CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

#### SARA 304 Emergency release notification

Not regulated.

#### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

#### SARA 302 Extremely hazardous substance

Not listed.

#### SARA 311/312 Hazardous chemical

**Classified hazard categories** Flammable (gases, aerosols, liquids, or solids)  
Acute toxicity (any route of exposure)  
Serious eye damage or eye irritation

#### SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.
N-Methylpyrrolidone	872-50-4	60 - < 70

### Other federal regulations

#### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

#### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

#### Safe Drinking Water Act (SDWA)

Not regulated.

#### Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

gamma-Butyrolactone (CAS 96-48-0) 70 %WV

#### DEA Exempt Chemical Mixtures Code Number

gamma-Butyrolactone (CAS 96-48-0) 2011

### US state regulations

#### California Proposition 65



**WARNING:** This product can expose you to N-Methylpyrrolidone, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

#### California Proposition 65 - CRT: Listed date/Developmental toxin

N-Methylpyrrolidone (CAS 872-50-4) Listed: June 15, 2001

#### US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

N-Methylpyrrolidone (CAS 872-50-4)  
Poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydroxy-, branched (CAS 68412-54-4)

### International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes

<b>Country(s) or region</b>	<b>Inventory name</b>	<b>On inventory (yes/no)*</b>
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)  
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

## 16. Other information, including date of preparation or last revision

<b>Issue date</b>	08-26-2014
<b>Revision date</b>	08-10-2018
<b>Version #</b>	04
<b>HMIS® ratings</b>	Health: 2 Flammability: 2 Physical hazard: 0
<b>NFPA ratings</b>	Health: 3 Flammability: 2 Instability: 0
<b>Disclaimer</b>	Not available.
<b>Revision information</b>	This document has undergone significant changes and should be reviewed in its entirety.