

# SAFETY DATA SHEET



## AZ 300T STRIPPER

Version  
5.3

Revision Date:  
07.08.2019

SDS Number:  
70MDGM184412

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### SECTION 1. IDENTIFICATION

#### Product identifier

Product name : AZ 300T STRIPPER

Product number : 184412

#### Recommended use of the chemical and restrictions on use

Recommended use : Intermediate for electronic industry

#### Details of the supplier of the safety data sheet

Company : EMD Performance Materials Corp., an Affiliate of Merck KGaA,  
Darmstadt, Germany, 1200 Intrepid Avenue, Suite 300,  
Philadelphia, PA 19112, 1-888-367-3275, www.emd-pm.com

Emergency telephone : 1-800-424-9300 CHEMTREC (USA)  
1-703-741-5970 CHEMTREC (International)  
24 Hours/day; 7 Days/week

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### SECTION 2. HAZARDS IDENTIFICATION

#### GHS Classification

Flammable liquids : Category 4

Corrosive to Metals : Category 1

Acute toxicity (Oral) : Category 3

Acute toxicity (Dermal) : Category 3

Skin corrosion : Category 1C

Serious eye damage : Category 1

Reproductive toxicity : Category 1B

Specific target organ toxicity : Category 1 (Central nervous system)  
- single exposure

Specific target organ toxicity : Category 3 (Respiratory system)

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- single exposure

Specific target organ toxicity : Category 1 (Liver, thymus gland)  
- repeated exposure

### GHS label elements

Hazard pictograms



Signal Word : Danger

Hazard Statements : H227 Combustible liquid.  
H290 May be corrosive to metals.  
H301 + H311 Toxic if swallowed or in contact with skin.  
H314 Causes severe skin burns and eye damage.  
H335 May cause respiratory irritation.  
H360 May damage fertility or the unborn child.  
H370 Causes damage to organs (Central nervous system).  
H372 Causes damage to organs (Liver, thymus gland) through prolonged or repeated exposure.

Precautionary Statements : **Prevention:**  
P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
P234 Keep only in original container.  
P260 Do not breathe dust/ fume/ gas/ mist/ vapors/ 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/ protective clothing/ eye protection/ face protection.

**Response:**  
P301 + P310 + P330 IF SWALLOWED: Immediately call a POISON CENTER/doctor. Rinse mouth.  
P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.

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P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

P307 + P311 IF exposed: Call a POISON CENTER or doctor/physician.

P362 Take off contaminated clothing and wash before reuse.

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

P390 Absorb spillage to prevent material damage.

### Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P403 + P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

P406 Store in corrosive resistant container with a resistant inner liner.

### Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

### Other hazards

None known.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

### Hazardous ingredients

Chemical name	Concentration (% w/w)	CAS-No.
Propane-1,2-diol	>= 50 - < 70	57-55-6
N-methyl-2-pyrrolidone	>= 30 - < 50	872-50-4
Tetramethylammonium hydroxide	>= 1 - < 5	75-59-2

## SECTION 4. FIRST AID MEASURES

General advice : TMAH is a severe Neurotoxin causing Ganglion Blockage. Rapid and vigorous decontamination followed by prompt medical respiratory support is needed for anyone that has experienced significant exposure. While the extent of the effects depend upon the exposure concentration, exposure duration and body area contacted; failure to provide prompt medical intervention in cases of significant exposure may result in fatality.

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If inhaled	:	Fresh air.
In case of skin contact	:	Take off immediately all contaminated clothing. Rinse skin with water/ shower.
In case of eye contact	:	Rinse out with plenty of water. Remove contact lenses.
If swallowed	:	Make victim drink water (two glasses at most). Consult doctor if feeling unwell.
Most important symptoms and effects, both acute and delayed	:	We have no description of any toxic symptoms.
Notes to physician	:	No information available.

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### SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable extinguishing media	:	For this substance/mixture no limitations of extinguishing agents are given.
Specific hazards during fire fighting	:	As the product contains combustible organic ingredients, fire will produce dense black smoke containing hazardous products of combustion (see section 10).  Vapors are heavier than air and may spread along floors. Forms explosive mixtures with air on intense heating.  Combustible.
Further information	:	Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.
Special protective equipment for fire-fighters	:	In the event of fire, wear self-contained breathing apparatus.

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### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions,	:	Advice for non-emergency personnel:
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- protective equipment and emergency procedures : Do not breathe vapors, aerosols. Evacuate the danger area, observe emergency procedures, consult an expert.  
Advice for emergency responders:  
Protective equipment see section 8.  
Indications about waste treatment see section 13.
- Environmental precautions : Do not flush into surface water or sanitary sewer system.
- Methods and materials for containment and cleaning up : Cover drains. Collect, bind, and pump off spills.  
Observe possible material restrictions (see sections 7 and 10).  
Take up with liquid-absorbent material (e.g. Chemizorb®).  
Dispose of properly. Clean up affected area.

### SECTION 7. HANDLING AND STORAGE

#### Precautions for safe handling

Advice on safe handling : Observe label precautions.

#### Conditions for safe storage, including any incompatibilities

Storage conditions : No metal containers.  
Tightly closed.  
Keep in a well-ventilated place.  
Keep locked up or in an area accessible only to qualified or authorized persons.

Risks from decomposition products: see section 10

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Propane-1,2-diol	57-55-6	TWA	10 mg/m <sup>3</sup>	US WEEL
N-methyl-2-pyrrolidone	872-50-4	TWA	10 ppm	US WEEL

#### Hazardous components without workplace control parameters

Components	CAS-No.
Tetramethylammonium hydroxide	75-59-2

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**Biological occupational exposure limits**

Components	CAS-No.	Control parameters	Biological specimen	Sampling time	Permissible concentration	Basis
	872-50-4	5-Hydroxy-N-methyl-2-pyrrolidone	Urine	End of shift (As soon as possible after exposure ceases)	100 mg/l	ACGIH BEI

**Engineering measures** : Handle only in a place equipped with local exhaust (or other appropriate exhaust).  
Ensure that eye flushing systems and safety showers are located close to the working place.  
Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

**Personal protective equipment**

Respiratory protection : Not required; except in case of aerosol formation.  
Respirator with filter for organic vapor

Eye protection : Safety glasses

Hygiene measures : Change contaminated clothing. Wash hands after working with substance.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Physical state	liquid
Form	liquid
Color	light yellow dark amber
Odor	musty
Odor Threshold	No information available.
pH	Not applicable
Melting point	No information available.

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Boiling point	No information available.
Flash point	199 °F (93 °C)
Evaporation rate	No information available.
Flammability (solid, gas)	No information available.
Lower explosion limit	No information available.
Upper explosion limit	No information available.
Vapor pressure	approximately 0.2 Torr
Relative vapor density	No information available.
Density	ca. 1.03 g/cm <sup>3</sup>
Relative density	No information available.
Water solubility	soluble
Partition coefficient: n-octanol/water	No information available.
Autoignition temperature	No information available.
Decomposition temperature	No information available.
Viscosity, dynamic	No information available.
Explosive properties	Not classified as explosive.
Oxidizing properties	none
Corrosion	Corrosive to metals

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### SECTION 10. STABILITY AND REACTIVITY

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Reactivity	: Forms explosive mixtures with air on intense heating. A range from approx. 15 Kelvin below the flash point is to be rated as critical.
Chemical stability	: The product is chemically stable under standard ambient conditions (room temperature) .
Possibility of hazardous reactions	: Hazardous polymerization does not occur.
Conditions to avoid	: Strong heating.
Incompatible materials	: Strong acids and oxidizing agents Metals
Hazardous decomposition products	: in the event of fire: See section 5.  Trimethylamine Methanol

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### SECTION 11. TOXICOLOGICAL INFORMATION

#### Information on toxicological effects

##### Product

##### Carcinogenicity

##### IARC

No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

##### OSHA

No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

##### NTP

No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

##### *Likely route of exposure*

Eye contact, Skin contact

##### *Acute oral toxicity*

Acute toxicity estimate: 215.35 mg/kg

Calculation method

##### *Acute dermal toxicity*

Acute toxicity estimate: 351.93 mg/kg

Calculation method



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### *Skin irritation*

Result: Corrosive, category 1C - where responses occur after exposures between 1 hour and 4 hours and observations up to 14 days.

Expert judgment

### *Eye irritation*

Result: Risk of serious damage to eyes.

Expert judgment

Teratogenicity / Reproductive toxicity:

May damage fertility or the unborn child.

### **Experience with human exposure**

Other Relevant Toxicity Information:

No toxicological testing was carried out on the preparation.

Handle in accordance with good industrial hygiene and safety practice.

### **Components**

#### *Propane-1,2-diol (57-55-6):*

##### *Acute oral toxicity*

LD50 Rat: 22,000 mg/kg (ECHA)

##### *Acute dermal toxicity*

LD50 Rabbit: > 2,000 mg/kg (ECHA)

##### *Skin irritation*

Rabbit

Result: slight irritation

(IUCLID)

##### *Eye irritation*

Rabbit

Result: slight irritation

(IUCLID)

##### *Sensitization*

Local lymph node assay (LLNA) Guinea pig

Result: negative

Method: OECD Test Guideline 429

##### *Germ cell mutagenicity*

*Genotoxicity in vivo*

Micronucleus test

Mouse

Result: negative

(OECD SIDS)

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### *Genotoxicity in vitro*

Ames test  
Result: negative  
(IUCLID)

reverse mutation assay  
Salmonella typhimurium  
Result: negative  
Metabolic activation: Metabolic activation

### *Carcinogenicity*

Did not show carcinogenic effects in animal experiments. (IUCLID)

### *Reproductive toxicity*

No impairment of reproductive performance in animal experiments. (Lit.)

### *Teratogenicity*

Did not show teratogenic effects in animal experiments. (Lit.)

### *N-methyl-2-pyrrolidone (872-50-4):*

#### *Acute oral toxicity*

LD50 Rat: 4,150 mg/kg  
OECD Test Guideline 401(ECHA)

#### *Acute inhalation toxicity*

LC50 Rat: > 5.1 mg/l; 4 h ; aerosol (ECHA)  
OECD Test Guideline 403

#### *Acute dermal toxicity*

LD50 Rat: > 5,000 mg/kg  
OECD Test Guideline 402 (ECHA)

#### *Skin irritation*

Rabbit  
Result: Skin irritation  
OECD Test Guideline 404  
(ECHA)

#### *Eye irritation*

Rabbit  
Result: irritating  
OECD Test Guideline 405  
(ECHA)

#### *Sensitization*

Mouse  
Result: Not a skin sensitizer.  
Method: OECD Test Guideline 429  
(ECHA)

Patch test: Human  
Result: negative  
(IUCLID)

#### *Germ cell mutagenicity*

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70MDGM184412*Genotoxicity in vivo*

In vivo micronucleus test

Mouse

Result: negative

Method: OECD Test Guideline 474  
(ECHA)

Chromosome aberration test

Chinese hamster

Result: negative

Method: OECD Test Guideline 475  
(ECHA)*Genotoxicity in vitro*

Ames test

Salmonella typhimurium

Result: negative

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471  
(ECHA)

In vitro mammalian cell gene mutation test

Chinese hamster ovary cells

Result: negative

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476  
(ECHA)

unscheduled DNA synthesis assay

mammalian cells

Result: negative

Method: OECD Test Guideline 482  
(ECHA)*Reproductive toxicity*

Application Route: Oral

Rat

Method: OECD Test Guideline 416

(ECHA)

*CMR effects*

Teratogenicity:

Clear evidence of adverse effects on sexual function and fertility, and/or on development, based on animal experiments

STOT-single exposure

Target Organs: Respiratory system

Assessment: May cause respiratory irritation.

*Tetramethylammonium hydroxide (75-59-2):**Acute oral toxicity*

LD50 Rat: 7.5 mg/kg

OECD Test Guideline 423(ECHA)

*Acute dermal toxicity*

LD50 Rat: 13 mg/kg (ECHA) Based on human experience.

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*Skin irritation*

Result: Causes burns.  
(ECHA)

*Eye irritation*

Result: Irreversible effects on the eye  
(ECHA)

*Repeated dose toxicity*

Rat  
female  
Dermal  
28 d  
daily  
NOAEL: 2.5 mg/kg  
Local effects, (ECHA)

Rat  
male and female  
Dermal  
28 d  
daily  
NOAEL: 10 mg/kg  
Systemic effects, (ECHA)

Rat  
male  
Oral  
28 d  
NOAEL: 5 mg/kg  
OECD Test Guideline 407  
(ECHA)

*Germ cell mutagenicity*

*Genotoxicity in vitro*  
Ames test  
Result: negative  
Method: Mutagenicity (Escherichia coli - reverse mutation assay)  
(ECHA)

Chromosome aberration test in vitro  
Chinese hamster lung cells  
Result: negative  
Method: OECD Test Guideline 473  
(ECHA)  
STOT-single exposure  
Target Organs: Central nervous system  
Assessment: The substance or mixture is classified as specific target organ toxicant, single exposure, category 1.  
Remarks: (ECHA)

## SECTION 12. ECOLOGICAL INFORMATION

**Ecotoxicity  
Product**

**Persistence and degradability**

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No information available.

**Bioaccumulative potential**

No information available.

**Mobility in soil**

No information available.

*Additional ecological information*

No ecological testing was carried out on the preparation.  
Discharge into the environment must be avoided.

**Components***Propane-1,2-diol (57-55-6):**Toxicity to fish*

LC50 *Oncorhynchus mykiss* (rainbow trout): 51,600 mg/l; 96 h  
OECD Test Guideline 203

*Toxicity to daphnia and other aquatic invertebrates*

EC50 *Daphnia magna* (Water flea): 34,400 mg/l; 48 h (Lit.)

*Toxicity to algae*

static test EC50 *Pseudokirchneriella subcapitata* (green algae): 24,200 mg/l; 72 h  
Analytical monitoring: yes  
OECD Test Guideline 201

*Toxicity to bacteria*

EC50 *Photobacterium phosphoreum*: 26,800 mg/l; 30 min (Lit.)

EC50 activated sludge: > 1,000 mg/l; 3 h (Lit.)

*Biodegradability*

86 %; 20 d  
OECD Test Guideline 301D  
Readily biodegradable.

87 - 92 %; 28 d  
OECD Test Guideline 301C  
Readily biodegradable.

*Partition coefficient: n-octanol/water*

log Pow: -1.07 (20 °C)  
Regulation (EC) No. 440/2008, Annex, A.8  
Bioaccumulation is not expected.

*Bioaccumulation*

Bioconcentration factor (BCF): 1.4  
(OECD SIDS)

*Surface tension*

71.6 mN/m

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*Stability in water*  
2.3 y  
reaction with hydroxyl radicals (IUCLID)

### *N-methyl-2-pyrrolidone (872-50-4):*

*Toxicity to fish*  
static test LC50 *Oncorhynchus mykiss* (rainbow trout): > 500 mg/l; 96 h  
Analytical monitoring: yes(ECHA)

*Toxicity to daphnia and other aquatic invertebrates*  
static test EC50 *Daphnia magna* (Water flea): > 1,000 mg/l; 24 h  
DIN 38412 (ECHA)

*Toxicity to algae*  
static test ErC50 *Desmodesmus subspicatus* (green algae): > 500 mg/l; 72 h  
DIN 38412

*Toxicity to bacteria*  
static test EC50 activated sludge: > 600 mg/l; 0.5 h  
ISO 8192

*Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)*  
semi-static test NOEC *Daphnia magna* (Water flea): 12.5 mg/l; 21 d

Analytical monitoring: yes

OECD Test Guideline 211

*Biodegradability*  
73 %; 28 d; aerobic  
OECD Test Guideline 301C  
Readily biodegradable.

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*Biochemical Oxygen Demand (BOD)*  
1,100 mg/g (5 d)  
(Lit.)

*Chemical Oxygen Demand (COD)*  
1,600 mg/g  
(Lit.)

*Ratio BOD/ThBOD*  
BOD1 99 %  
(IUCLID)

*Partition coefficient: n-octanol/water*  
log Pow: -0.46 (25 °C)  
OECD Test Guideline 107  
(IUCLID)

*Bioaccumulation*  
(Bioaccumulation is unlikely.)

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Substance does not meet the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006, Annex XIII.

### *Tetramethylammonium hydroxide (75-59-2):*

#### *Toxicity to fish*

LC50 *Pimephales promelas* (fathead minnow): > 100 mg/l; 96 h  
OECD Test Guideline 203 (ECHA) (in analogy to similar compounds)

#### *Toxicity to daphnia and other aquatic invertebrates*

EC50 *Daphnia magna* (Water flea): 3 mg/l; 48 h  
OECD Test Guideline 202 (ECHA)

#### *Toxicity to algae*

EC50 *Pseudokirchneriella subcapitata* (green algae): 96.3 mg/l; 72 h  
OECD Test Guideline 201 (ECHA)

#### *Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)*

NOEC *Daphnia magna* (Water flea): 0.025 mg/l; 48 h

OECD Test Guideline 202 (ECHA)

#### *Biodegradability*

100 %; 28 d  
OECD Test Guideline 301B  
(ECHA)  
Readily biodegradable.

#### *Partition coefficient: n-octanol/water*

log Pow: -1.4 (20 °C)  
OECD Test Guideline 107  
Bioaccumulation is not expected.

#### *Bioaccumulation*

(Bioaccumulation is unlikely.)

## SECTION 13. DISPOSAL CONSIDERATIONS

Product Waste : Waste material must be disposed of in accordance with national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.  
See [www.retrologistik.com](http://www.retrologistik.com) for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

RCRA number : RCRA number: D002  
Yes -- If it becomes a waste as sold.

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### SECTION 14. TRANSPORT INFORMATION

#### DOT / 49CFR

UN/ID/NA number : UN 1835  
Proper shipping name : Tetramethylammonium hydroxide solution  
  
Class : 8  
Packing group : III  
Labels : Class 8 - Corrosive substances  
ERG Code : 153  
Marine pollutant : no  
Remarks : LTD QTY =< 5 L or 5 KG net capacity, as per 49 CFR 173.154

#### International Regulations

##### IATA-DGR

UN/ID No. : UN 1835  
Proper shipping name : Tetramethylammonium hydroxide, solution  
Class : 8  
Packing group : III  
Labels : Class 8 - Corrosive substances  
Packing instruction (cargo aircraft) : 856  
Packing instruction (passenger aircraft) : 852

##### IMDG-Code

UN number : UN 1835  
Proper shipping name : TETRAMETHYLAMMONIUM HYDROXIDE SOLUTION

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Class : 8  
Packing group : III  
Labels : 8  
EmS Code : F-A, S-B  
Marine pollutant : no  
Remarks : Ammonium compounds, Alkalis

#### Special precautions for user

Not applicable

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### SECTION 15. REGULATORY INFORMATION

**EPCRA - Emergency Planning and Community Right-to-Know**

#### CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.



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### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

### SARA 302

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

### SARA 313

The following components are subject to reporting levels established by SARA Title III, Section 313:

N-methyl-2-pyrrolidone	872-50-4
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### Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489):

Propane-1,2-diol	57-55-6
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### Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

### US State Regulations

#### Massachusetts Right To Know

N-methyl-2-pyrrolidone	872-50-4
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#### Pennsylvania Right To Know

Propane-1,2-diol	57-55-6
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N-methyl-2-pyrrolidone	872-50-4
------------------------	----------

#### New Jersey Right To Know

Propane-1,2-diol	57-55-6
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N-methyl-2-pyrrolidone	872-50-4
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Tetramethylammonium hydroxide	75-59-2
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### California Prop. 65

WARNING: This product can expose you to one or more chemicals 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)

N-methyl-2-pyrrolidone

872-50-4

### The ingredients of this product are reported in the following inventories:

DSL : All components of this product are on the Canadian DSL

TSCA : All substances listed on the TSCA Active Inventory.

### TSCA list

The following substance(s) is/are subject to TSCA 12(b) export notification requirements:

N-methyl-2-pyrrolidone

872-50-4

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## SECTION 16. OTHER INFORMATION

The information provided in this Material Safety Data Sheet 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 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 materials or in any process, unless specified in the text.

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