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|   | SDS Number: R0717500      |
| germall™ 115 preservative<br>™ Trademark, Ashland or its subsidiaries, registered<br>in various countries<br>828421 | Version: 1.8              |

29 CFR 1910.1200 (OSHA HazCom 2012)

## SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

### 1.1 Product identifier

Trade name : germall™ 115 preservative  
Description : preservative  
™ Trademark, Ashland or its subsidiaries, registered in various countries

Substance name GERMALL 115

Substance No.  
EC-No. 254-372-6

CAS-No. 39236-46-9

### Relevant identified uses of the substance or mixture and uses advised against

Recommended use : Preservative  
Personal care

|  |  |
|--|--|
| <b>Details of the supplier of the safety data sheet</b><br>Ashland<br>P.O. Box 2219<br>Columbus, OH 43216<br>United States of America (USA)<br>1-614-790-3333 (USA)<br><br>EHSPProductSafety@ashland.com | <b>Emergency telephone</b><br>1-800-ASHLAND (1-800-274-5263)<br><br><b>Regulatory information</b><br>1-614-790-3333 (customer service)<br><br><b>Product Information</b><br>1-614-790-3333 (USA) |
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## SECTION 2. HAZARDS IDENTIFICATION

### GHS Classification

Combustible Dust :

Skin sensitization : Sub-category 1B

### GHS label elements

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Hazard pictograms



Signal Word

: Warning

Hazard Statements

: May form combustible dust concentrations in air.  
May cause an allergic skin reaction.

Precautionary Statements

: **Prevention:**  
Avoid breathing dust.  
Contaminated work clothing must not be allowed out of the workplace.  
Wear protective gloves.  
**Response:**  
IF ON SKIN: Wash with plenty of soap and water.  
If skin irritation or rash occurs: Get medical advice/ attention.  
Wash contaminated clothing before reuse.  
**Disposal:**  
Dispose of contents/ container to an approved waste disposal plant.

#### Other hazards

May form explosible dust-air mixture if dispersed.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture

: Substance

Chemical nature

: organic

#### Hazardous ingredients


| Chemical name       | CAS-No.    | Classification                   | Concentration (%)  |
|---------------------|------------|----------------------------------|--------------------|
| IMIDAZOLIDINYL UREA | 39236-46-9 | Comb Dust<br>Skin Sens. 1B; H317 | >=90.00 - <=100.00 |

Actual concentration is withheld as a trade secret

### SECTION 4. FIRST AID MEASURES

General advice

: Move out of dangerous area.  
Show this material safety data sheet to the doctor in attendance.


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| If inhaled  | Do not leave the victim unattended.<br>: If unconscious, place in recovery position and seek medical advice.  |
| In case of skin contact                                     | If symptoms persist, call a physician.<br>: If on skin, rinse well with water.  |
| In case of eye contact                                      | : Flush eyes with water as a precaution.<br>Remove contact lenses.<br>Protect unharmed eye.<br>Keep eye wide open while rinsing.<br>If eye irritation persists, consult a specialist. |
| If swallowed  | : Keep respiratory tract clear.<br>Do not give milk or alcoholic beverages.<br>Never give anything by mouth to an unconscious person.<br>If symptoms persist, call a physician.       |
| Most important symptoms and effects, both acute and delayed | : Severe allergic skin reactions, bronchospasm and anaphylactic shock<br>Rash<br>Itching<br>Dermatitis<br>Local irritation<br>May cause an allergic skin reaction.                    |
| Notes to physician  | : Treat symptomatically.  |

## SECTION 5. FIRE-FIGHTING MEASURES

|  |   |
|--|---|
| Suitable extinguishing media                   | : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.   |
| Unsuitable extinguishing media                 | : High volume water jet   |
| Specific hazards during fire fighting          | : Do not allow run-off from fire fighting to enter drains or water courses.   |
| Hazardous combustion products                  | : No hazardous combustion products are known  |
| Specific extinguishing methods                 | :   |
| Further information                            | Standard procedure for chemical fires.<br>: Collect contaminated fire extinguishing water separately. This must not be discharged into drains.<br>Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. |
| Special protective equipment for fire-fighters | : In the event of fire, wear self-contained breathing apparatus.  |

## SECTION 6. ACCIDENTAL RELEASE MEASURES


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|---|--|
| Personal precautions,<br>protective equipment and<br>emergency procedures | : Use personal protective equipment.<br>Avoid dust formation.<br>Avoid breathing dust.   |
| Environmental precautions   | : Prevent product from entering drains.<br>Prevent further leakage or spillage if safe to do so.<br>If the product contaminates rivers and lakes or drains inform<br>respective authorities. |
| Methods and materials for<br>containment and cleaning up                  | : Keep in suitable, closed containers for disposal.  |

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## SECTION 7. HANDLING AND STORAGE

- |  |  |
|--|--|
| Advice on protection against<br>fire and explosion | : Avoid dust formation.<br>Provide appropriate exhaust ventilation at places where dust<br>is formed.  |
| Advice on safe handling                            | : Avoid formation of respirable particles.<br>Do not breathe vapors/dust.<br>Avoid exposure - obtain special instructions before use.<br>Avoid contact with skin and eyes.<br>For personal protection see section 8.<br>Smoking, eating and drinking should be prohibited in the<br>application area.<br>Dispose of rinse water in accordance with local and national<br>regulations.<br>Persons susceptible to skin sensitization problems or asthma,<br>allergies, chronic or recurrent respiratory disease should not<br>be employed in any process in which this mixture is being<br>used. |
| Conditions for safe storage                        | : Keep container tightly closed in a dry and well-ventilated<br>place.<br>Containers which are opened must be carefully resealed and<br>kept upright to prevent leakage.<br>Electrical installations / working materials must comply with<br>the technological safety standards.   |
| Further information on<br>storage conditions       | : Protect from frost.<br><br>Do not store above 30° C / 86° F.   |
| Further information on<br>storage stability        | : Keep in a dry place.   |

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## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION


### Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

|                                      |  |
|--------------------------------------|--|
| <b>Engineering measures</b>          | : Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.   |
| <b>Personal protective equipment</b> |  |
| Respiratory protection               | : In the case of dust or aerosol formation use respirator with an approved filter within the capabilities of the respirator/filter combination.<br>Where concentrations are above recommended limits or are unknown, or a cartridge type respirator is not adequate, wear a positive-pressure supplied-air respirator. |
| Hand protection                      |  |
| Material                             | : butyl-rubber   |
| Break through time                   | : 480 min  |
| Glove thickness                      | : > 0.5 mm   |
| Remarks                              | : The exact break through time can be obtained from the protective glove producer and this has to be observed. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.   |
| Eye protection                       | : Tightly fitting safety goggles<br>Wear face-shield and protective suit for abnormal processing problems.<br>Eye wash bottle with pure water  |
| Skin and body protection             | : Work uniform or laboratory coat.<br>Choose body protection according to the amount and concentration of the dangerous substance at the work place.   |
| Hygiene measures                     | : Wash hands before breaks and at the end of workday.  |

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

|                |   |
|----------------|---|
| Appearance     | : powder                                    |
| Physical state | : solid (20 °C, 101.3 kPa)                  |
| Color          | : white                                     |
| Odor           | : odorless                                  |
| Odor Threshold | : Not applicable                            |
| pH             | : 6.0 - 7.5                                 |
|                | Concentration: 1 %<br>(as aqueous solution) |

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: 464.9 °F / 240.5 °C  
(1,013 hPa)

Melting point/range

Boiling point/boiling range : not determined

Flash point : Not applicable

Evaporation rate : Not applicable

Flammability (solid, gas) : The product is not flammable.

Upper explosion limit : not determined

Lower explosion limit : not determined

Vapor pressure : < 0.0000001 Pa (25 °C)

Relative vapor density : Not applicable

Relative density : No data available

Density : 1.24 g/cm<sup>3</sup> (20 °C)

Solubility(ies)

Water solubility : 1,000 g/l (20 °C)

Solubility in other solvents : No data available

Partition coefficient: n-octanol/water : log Pow: 0.9 (20 °C)

Thermal decomposition : No data available


Viscosity

Viscosity, dynamic : Not applicable

Viscosity, kinematic : Not applicable

Oxidizing properties : Not applicable

Molecular weight : 388.29 g/mol

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## SECTION 10. STABILITY AND REACTIVITY

|                                    |   |
|------------------------------------|---|
| Reactivity                         | : No dangerous reaction known under conditions of normal use. |
| Chemical stability                 | : Stable under normal conditions.                             |
| Possibility of hazardous reactions | : Dust may form explosive mixture in air.                     |
| Conditions to avoid                | : Protect from frost, heat and sunlight.                      |
| Incompatible materials             | : Oxidizing agents  |
| Hazardous decomposition products   | No hazardous decomposition products are known.                |

## SECTION 11. TOXICOLOGICAL INFORMATION

|  |  |
|--|--|
| Information on likely routes of exposure | : Inhalation<br>Eye contact<br>Skin contact<br>Ingestion |
|--|--|

### Acute toxicity

Not classified based on available information.

### Product:


|                           |  |
|---------------------------|--|
| Acute oral toxicity       | : LD50 (Rat): 5,200 mg/kg  |
| Acute inhalation toxicity | : LC50 (Rat): > 5.5 mg/l<br>Exposure time: 1 h<br>Test atmosphere: dust/mist<br>Assessment: Not classified as acutely toxic by inhalation under GHS. |
| Acute dermal toxicity     | : LD50 (Rabbit): > 5,000 mg/kg   |

### Components:

#### IMIDAZOLIDINYL UREA:

|                           |  |
|---------------------------|--|
| Acute oral toxicity       | : LD50 (Rat): 5,200 mg/kg  |
| Acute inhalation toxicity | : LC50 (Rat): > 5.5 mg/l<br>Exposure time: 1 h<br>Test atmosphere: dust/mist<br>Assessment: Not classified as acutely toxic by inhalation under GHS. |
| Acute dermal toxicity     | : LD50 (Rabbit): > 5,000 mg/kg   |

### Skin corrosion/irritation

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Not classified based on available information.

**Product:**

Result: No skin irritation

Remarks: May cause skin irritation and/or dermatitis.

**Components:**

IMIDAZOLIDINYL UREA:

Result: No skin irritation

**Serious eye damage/eye irritation**

Not classified based on available information.

**Product:**

Result: No eye irritation

Remarks: Product dust may be irritating to eyes, skin and respiratory system.

**Components:**

IMIDAZOLIDINYL UREA:

Result: No eye irritation

**Respiratory or skin sensitization**

Skin sensitization: May cause an allergic skin reaction.

Respiratory sensitization: Not classified based on available information.

**Product:**

Test Type: Local lymph node assay

Species: Mouse

Assessment: The product is a skin sensitizer, sub-category 1B.

Method: OECD Test Guideline 442A

Test Type: Maximization Test

Species: Guinea pig

Assessment: The product is a skin sensitizer, sub-category 1B.

Method: OECD Test Guideline 406

**Components:**

IMIDAZOLIDINYL UREA:

Test Type: Local lymph node assay


Species: Mouse

Assessment: The product is a skin sensitizer, sub-category 1B.

Method: OECD Test Guideline 442A

Test Type: Maximization Test



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Species: Guinea pig

Assessment: The product is a skin sensitizer, sub-category 1B.

Method: OECD Test Guideline 406

Germ cell mutagenicity

Not classified based on available information.

**Product:**

Genotoxicity in vitro : Test Type: Ames test  
Metabolic activation: with and without metabolic activation  
Result: negative  
GLP: yes

: Test Type: Chromosome aberration test in vitro  
Metabolic activation: with and without metabolic activation  
Result: negative

Genotoxicity in vivo : Test Type: In vivo micronucleus test  
Test species: Mouse  
Application Route: Oral  
Result: negative

Test Type: in vivo assay  
Test species: Rat  
Application Route: Oral  
Result: negative

**Components:**


IMIDAZOLIDINYL UREA:

Genotoxicity in vitro : Test Type: Ames test  
Metabolic activation: with and without metabolic activation  
Result: negative  
GLP: yes

: Test Type: Chromosome aberration test in vitro  
Metabolic activation: with and without metabolic activation  
Result: negative

Genotoxicity in vivo : Test Type: In vivo micronucleus test  
Test species: Mouse  
Application Route: Oral  
Result: negative

Test Type: in vivo assay  
Test species: Rat  
Application Route: Oral  
Result: negative

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### **Carcinogenicity**

Not classified based on available information.

### **Reproductive toxicity**

Not classified based on available information.

### **Product:**

Effects on fetal development : Test Type: Embryo-fetal development  
Species: Rat  
Application Route: Oral  
Dose: 300 milligram per kilogram  
Embryo-fetal toxicity.: No observed adverse effect level F1:  
300  
Result: No teratogenic effects.

Test Type: Embryo-fetal development  
Species: Mouse  
Application Route: Oral  
Dose: 300 milligram per kilogram  
Embryo-fetal toxicity.: No observed adverse effect level F1:  
300  
Result: No teratogenic effects.

### **Components:**

#### **IMIDAZOLIDINYL UREA:**

Effects on fetal development : Test Type: Embryo-fetal development  
Species: Rat  
Application Route: Oral  
Dose: 300 milligram per kilogram  
Embryo-fetal toxicity.: No observed adverse effect level F1:  
300  
Result: No teratogenic effects.

Test Type: Embryo-fetal development  
Species: Mouse  
Application Route: Oral  
Dose: 300 milligram per kilogram  
Embryo-fetal toxicity.: No observed adverse effect level F1:  
300  
Result: No teratogenic effects.

### **STOT-single exposure**


Not classified based on available information.

### **STOT-repeated exposure**

Not classified based on available information.

### **Repeated dose toxicity**

### **Product:**

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Species: Rat  
NOAEL: 200 mg/kg  
LOAEL: 500 mg/kg  
Application Route: Oral

Species: Rabbit  
NOAEL: 200 mg/kg  
Application Route: Dermal

**Components:**

IMIDAZOLIDINYL UREA:

Species: Rat  
NOAEL: 200 mg/kg  
LOAEL: 500 mg/kg  
Application Route: Oral

Species: Rabbit  
NOAEL: 200 mg/kg  
Application Route: Dermal

**Aspiration toxicity**

Not classified based on available information.

**Product:**

No aspiration toxicity classification

**Further information**

**Product:**

Remarks: No data available

**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.


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**SECTION 12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

**Product:**

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): > 220 mg/l

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Exposure time: 96 h  
Test Type: static test  
Method: OPPTS 850.1075

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 58 mg/l  
Exposure time: 48 h  
Test Type: flow-through test  
Remarks: Information given is based on data obtained from similar substances.


Toxicity to algae : ErC50 (Pseudokirchneriella subcapitata (green algae)): 5.78 mg/l  
End point: Growth inhibition  
Exposure time: 72 h  
Remarks: Information given is based on data obtained from similar substances.

NOEC (Pseudokirchneriella subcapitata (green algae)): 1.6 mg/l  
End point: Growth inhibition  
Exposure time: 72 h  
Remarks: Information given is based on data obtained from similar substances.

Toxicity to bacteria : EC50: 567 mg/l  
Exposure time: 3 h  
Method: OECD Test Guideline 209  
  
: EC0: 200 mg/l  
Exposure time: 3 h  
Method: OECD Test Guideline 209

Ecotoxicology Assessment  
Short-term (acute) aquatic hazard : Not expected to cause short-term toxicity to fish., Not expected to cause short-term toxicity to aquatic invertebrates., Not expected to cause short-term toxicity to aquatic plants.  
  
Acute aquatic toxicity Category 2; Toxic to aquatic life.

Long-term (chronic) aquatic hazard : Not expected to cause long-term toxicity to fish., Not expected to cause long-term toxicity to aquatic invertebrates., Not expected to cause long-term toxicity to aquatic plants.  
  
Chronic aquatic toxicity Category 3; Harmful to aquatic life with long lasting effects.

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**Components:**

**IMIDAZOLIDINYL UREA:**

- Toxicity to fish : LC50 (*Lepomis macrochirus* (Bluegill sunfish)): > 220 mg/l  
Exposure time: 96 h  
Test Type: static test  
Method: OPPTS 850.1075
- Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): 58 mg/l  
Exposure time: 48 h  
Test Type: flow-through test  
Remarks: Information given is based on data obtained from similar substances.
- Toxicity to algae : ErC50 (*Pseudokirchneriella subcapitata* (green algae)): 5.78 mg/l  
End point: Growth inhibition  
Exposure time: 72 h  
Remarks: Information given is based on data obtained from similar substances.
- NOEC (*Pseudokirchneriella subcapitata* (green algae)): 1.6 mg/l  
End point: Growth inhibition  
Exposure time: 72 h  
Remarks: Information given is based on data obtained from similar substances.
- Toxicity to bacteria : EC50: 567 mg/l  
Exposure time: 3 h  
Method: OECD Test Guideline 209
- EC0: 200 mg/l  
Exposure time: 3 h  
Method: OECD Test Guideline 209
- Ecotoxicology Assessment  
Short-term (acute) aquatic hazard : Not expected to cause short-term toxicity to fish., Not expected to cause short-term toxicity to aquatic invertebrates., Not expected to cause short-term toxicity to aquatic plants.
- Long-term (chronic) aquatic hazard : Not expected to cause long-term toxicity to fish., Not expected to cause long-term toxicity to aquatic invertebrates., Not expected to cause long-term toxicity to aquatic plants.

**Persistence and degradability**

**Product:**

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Biodegradability : Test Type: aerobic  
Result: Inherently biodegradable.  
Biodegradation: > 40 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B

Stability in water : Degradation half life(DT50): 12 h (20.4 °C) pH: 7

**Components:**

IMIDAZOLIDINYL UREA:

Biodegradability : aerobic  
Result: Inherently biodegradable.  
Biodegradation: > 40 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B

Stability in water : Degradation half life(DT50): 12 h (20.4 °C) pH: 7

No data available

**Bioaccumulative potential**

**Product:**

Bioaccumulation : Remarks: The substance has low potential for bioaccumulation.

**Components:**

IMIDAZOLIDINYL UREA:

Bioaccumulation : Remarks: The substance has low potential for bioaccumulation.

Partition coefficient: n-octanol/water : log Pow: 0.9 (20 °C)

**Mobility in soil**

**Product:**

Distribution among environmental compartments : Adsorption/Soil  
log Koc: < 2.07  
Remarks: Mobile in soils

**Components:**

IMIDAZOLIDINYL UREA:


Distribution among environmental compartments : Adsorption/Soil  
log Koc: < 2.07  
Remarks: Mobile in soils

**Other adverse effects**

No data available

**Product:**

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Toxic to aquatic life.,

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Harmful to aquatic life with long lasting effects.

**Components:**

**SECTION 13. DISPOSAL CONSIDERATIONS**

**Disposal methods**

- General advice : The product should not be allowed to enter drains, water courses or the soil.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Send to a licensed waste management company.
- Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.

**SECTION 14. TRANSPORT INFORMATION**

**International transport regulations**

**REGULATION**

| ID NUMBER | PROPER SHIPPING NAME | *HAZARD CLASS | SUBSIDIARY HAZARDS | PACKING GROUP | MARINE POLLUTANT / LTD. QTY. |
|-----------|----------------------|---------------|--------------------|---------------|------------------------------|
|           |                      |               |                    |               |                              |

**MX\_DG**

|                     |
|---------------------|
| Not dangerous goods |
|                     |

**INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER**

|                     |
|---------------------|
| Not dangerous goods |
|                     |

**INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO**

|                     |
|---------------------|
| Not dangerous goods |
|                     |


**INTERNATIONAL MARITIME DANGEROUS GOODS**

|                     |
|---------------------|
| Not dangerous goods |
|                     |

**TDG\_INWT\_C**

|                     |
|---------------------|
| Not dangerous goods |
|                     |

**TDG\_RAIL\_C**

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|                     |
|---------------------|
| Not dangerous goods |
|                     |

#### TDG\_ROAD\_C

|                     |
|---------------------|
| Not dangerous goods |
|                     |

#### U.S. DOT - INLAND WATERWAYS

|                     |
|---------------------|
| Not dangerous goods |
|                     |

#### CFR\_RAIL\_C

|                     |
|---------------------|
| Not dangerous goods |
|                     |

#### U.S. DOT - ROAD

|                     |
|---------------------|
| Not dangerous goods |
|                     |

\*ORM = ORM-D, CBL = COMBUSTIBLE LIQUID

|                  |    |
|------------------|----|
| Marine pollutant | no |
|------------------|----|

Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

## SECTION 15. REGULATORY INFORMATION

### TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

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


### CERCLA Reportable Quantity

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

### SARA 304 Extremely Hazardous Substances Reportable Quantity

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



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- SARA 311/312 Hazards** : Combustible Dust  
Respiratory or skin sensitization
- SARA 302** : This material does not contain any components with a section 302 EHS TPQ.
- 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.

#### US State Regulations

##### Pennsylvania Right To Know

|                     |            |
|---------------------|------------|
| IMIDAZOLIDINYL UREA | 39236-46-9 |
| WATER               | 7732-18-5  |

##### New Jersey Right To Know


|                     |            |
|---------------------|------------|
| IMIDAZOLIDINYL UREA | 39236-46-9 |
| WATER               | 7732-18-5  |

##### California Prop. 65

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

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

- |       |  |
|-------|--|
| TCSI  | : On the inventory, or in compliance with the inventory  |
| TSCA  | : All substances listed as active on the TSCA inventory  |
| AIIC  | : On the inventory, or in compliance with the inventory  |
| DSL   | : All components of this product are on the Canadian DSL |
| ENCS  | : Personal care  |
| ISHL  | : Not in compliance with the inventory                   |
| KECI  | : On the inventory, or in compliance with the inventory  |
| PICCS | : On the inventory, or in compliance with the inventory  |

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IECSC : On the inventory, or in compliance with the inventory

#### Inventories

AIIC (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TECI (Thailand), TSCA (USA)

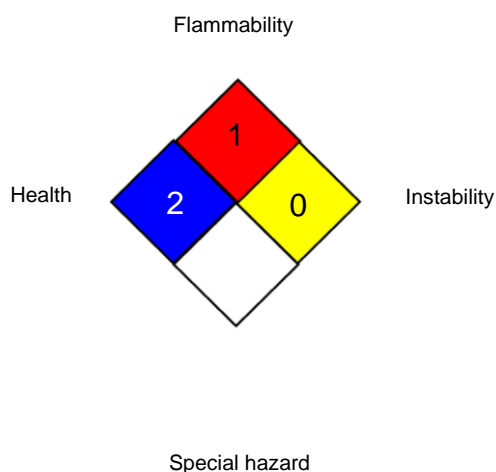
#### Other regulations

US. Drug Enforcement Administration (DEA) Listed Precursor and Essential Chemicals (21 CFR 1310) Not applicable

## SECTION 16. OTHER INFORMATION

#### Further information

##### NFPA 704:




##### HMIS® IV:

|                 |   |   |
|-----------------|---|---|
| HEALTH          | / | 2 |
| FLAMMABILITY    |   | 1 |
| PHYSICAL HAZARD |   | 0 |

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "\*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

#### Full text of H-Statements

H317 May cause an allergic skin reaction.


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### Full text of other abbreviations

AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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[http://www.ashland.com/file\\_source/Ashland/About/Documents/R0717500\\_Annex\\_EN.pdf](http://www.ashland.com/file_source/Ashland/About/Documents/R0717500_Annex_EN.pdf)

Sources of key data used to compile the Material Safety Data Sheet : Ashland internal data including own and sponsored test reports  
European Union Law with content from the Official Journal of the European Union.  
European Chemicals Agency; the EU authority implementing the EU's chemicals legislation for companies.  
The German Water Hazard Classes.

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ReachCentrum; a series of support services to help comply with REACH regulations.

The European Commission; proposing legislation, administering and implementing EU policies, and enforcing EU law.

The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport. Cefic, the European Chemical Industry Council.

ESIS European Chemical Substances Information System

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The information provided in this 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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