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29 CFR 1910.1200 (OSHA HazCom 2012)

## SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

### 1.1 Product identifier

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

Substance name GERMALL® II

Substance No.  
EC-No. 278-928-2

CAS-No. 78491-02-8

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

Recommended use : Preservative

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

### GHS Classification

Combustible Dust :

Eye irritation : Category 2A

### GHS label elements

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Hazard pictograms



Signal Word

: Warning

Hazard Statements

: May form combustible dust concentrations in air.  
Causes serious eye irritation.

Precautionary Statements

: **Prevention:**  
Wash skin thoroughly after handling.  
Wear eye protection/ face protection.  
**Response:**  
IF IN EYES: Rinse cautiously with water for several minutes.  
Remove contact lenses, if present and easy to do. Continue rinsing.  
If eye irritation persists: Get medical advice/ attention.

**Other hazards**

None known.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture

: Substance

Chemical nature

: organic

#### Hazardous ingredients

Chemical name	CAS-No.	Classification	Concentration (%)
DIAZOLIDINYL UREA	78491-02-8	Comb Dust Eye Irrit. 2A; H319	>=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.  
Do not leave the victim unattended.


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If inhaled	: If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.
In case of skin contact	: Wash off with soap and plenty of water.
In case of eye contact	: Immediately flush eye(s) with plenty of water. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.
If swallowed	: Keep respiratory tract clear. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.
Most important symptoms and effects, both acute and delayed	: Causes serious eye irritation. tearing Blurred vision Irritation Redness burning or stinging of the eye
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
Hazardous combustion products	: No hazardous combustion products are known
Specific extinguishing methods	:
	Standard procedure for chemical fires.
Further information	: Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must

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be disposed of in accordance with local regulations.

Special protective equipment : In the event of fire, wear self-contained breathing apparatus.  
for fire-fighters

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## SECTION 6. ACCIDENTAL RELEASE MEASURES

- |   |  |
|---|--|
| 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.  |

---

## 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 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. |
| 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.   |

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Do not store above 30° C / 86° F.

Further information on storage stability : Keep in a dry place.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

**Engineering measures** : 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.

### Personal protective equipment

**Respiratory protection** : In the case of dust or aerosol formation use respirator with an approved filter within the capabilities of the respirator/filter combination.  
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  
Wear face-shield and protective suit for abnormal processing problems.  
Eye wash bottle with pure water


**Skin and body protection** : Work uniform or laboratory coat.  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

**Hygiene measures** : When using do not eat or drink.  
When using do not smoke.  
Wash hands before breaks and at the end of workday.

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## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: powder
Physical state	: solid
Color	: white
Odor	: mild, characteristic
Odor Threshold	: No data available
pH	: 6.5 - 8.0 Concentration: 1 %
Melting point/freezing point	: 316.0 °F / 157.8 °C (1,013 hPa)  : Decomposition: Decomposes below the boiling point.
Flash point	: not determined
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 (20 °C)
Relative vapor density	: Not applicable
Relative density	: 1.3373 (20 °C)
Density	:  not determined
Solubility(ies)	

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Water solubility	: 1,000 g/l
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: log Pow: 0.9 (20 °C)
Thermal decomposition	: ca. 230 °C
Viscosity	
Viscosity, dynamic	: Not applicable
Viscosity, kinematic	: Not applicable
Explosive properties	: Not explosive
Oxidizing properties	: The substance or mixture is not classified as oxidizing.
Molecular weight	: 278 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.

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## SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure	: Inhalation Eye contact
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Skin contact  
Ingestion

#### Acute toxicity

Not classified based on available information.

#### Product:

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg  
Method: OPPTS 870.1100

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg  
Method: OPPTS 870.1200  
Assessment: Not classified as acutely toxic by dermal absorption under GHS.

#### Components:

DIAZOLIDINYL UREA:

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg  
Method: OPPTS 870.1100

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg  
Method: OPPTS 870.1200  
Assessment: Not classified as acutely toxic by dermal absorption under GHS.

#### Skin corrosion/irritation

Not classified based on available information.

#### Product:

Species: Rabbit  
Method: OPPTS 870.2500  
Result: No skin irritation

Remarks: May cause skin irritation in susceptible persons.

#### Components:

DIAZOLIDINYL UREA:

Species: Rabbit  
Method: OPPTS 870.2500  
Result: No skin irritation


#### Serious eye damage/eye irritation

Causes serious eye irritation.

#### Product:

Species: Rabbit  
Result: Irritating to eyes.  
Method: OPPTS 870.2400



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Remarks: May cause irreversible eye damage.

**Components:**

DIAZOLIDINYL UREA:

Species: Rabbit

Result: Irritating to eyes.

Method: OPPTS 870.2400

**Respiratory or skin sensitization**

Skin sensitization: Not classified based on available information.

Respiratory sensitization: Not classified based on available information.

**Product:**

Test Type: Maximization Test

Species: Guinea pig

Assessment: Did not cause sensitization on laboratory animals.

Method: OECD Test Guideline 406

**Components:**

DIAZOLIDINYL UREA:

Test Type: Maximization Test

Species: Guinea pig

Assessment: Did not cause sensitization on laboratory animals.


Method: OECD Test Guideline 406

Germ cell mutagenicity

Not classified based on available information.

**Product:**

- |                       |   |
|-----------------------|---|
| Genotoxicity in vitro | : Test Type: Ames test<br>Metabolic activation: with and without metabolic activation<br>Method: OECD Test Guideline 471<br>Result: negative  |
|                       | : Test Type: Chromosome aberration test in vitro<br>Metabolic activation: with and without metabolic activation<br>Method: OECD Test Guideline 473<br>Result: negative                      |
| Genotoxicity in vivo  | : Test Type: In vivo micronucleus test<br>Test species: Mouse (male and female)<br>Cell type: Bone marrow<br>Application Route: Oral<br>Method: OECD Test Guideline 474<br>Result: negative |

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Test Type: unscheduled DNA synthesis assay  
Test species: Rat  
Cell type: Liver cells  
Application Route: Oral  
Method: OECD Test Guideline 486  
Result: negative

**Components:**

**DIAZOLIDINYL UREA:**

Genotoxicity in vitro

- : Test Type: Ames test  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative
- : Test Type: Chromosome aberration test in vitro  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 473  
Result: negative

Genotoxicity in vivo

- : Test Type: In vivo micronucleus test  
Test species: Mouse (male and female)  
Cell type: Bone marrow  
Application Route: Oral  
Method: OECD Test Guideline 474  
Result: negative

Test Type: unscheduled DNA synthesis assay  
Test species: Rat  
Cell type: Liver cells  
Application Route: Oral  
Method: OECD Test Guideline 486  
Result: negative

**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: 500 milligram per kilogram

**Components:**

**DIAZOLIDINYL UREA:**

- Effects on fetal development : Test Type: Embryo-fetal development

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Species: Rat  
Application Route: Oral  
Dose: 500 milligram per kilogram

**STOT-single exposure**

Not classified based on available information.

**STOT-repeated exposure**

Not classified based on available information.

**Repeated dose toxicity**

**Product:**

Species: Rat, male and female

NOEL: 200 mg/kg

Application Route: Oral

Exposure time: 90 days

**Components:**

DIAZOLIDINYL UREA:

Species: Rat, male and female

NOEL: 200 mg/kg

Application Route: Oral

Exposure time: 90 days

**Aspiration toxicity**

Not classified based on available information.

**Further information**

**Product:**

Remarks: No data available

**Components:**

DIAZOLIDINYL UREA:

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 (Fish): > 100 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): 58 mg/l Exposure time: 48 h Test Type: flow-through test
Toxicity to algae	: ErC50 (Selenastrum capricornutum (green algae)): 5.78 mg/l End point: EC50 Exposure time: 72 h Test Type: Growth inhibition Analytical monitoring: yes
Ecotoxicology Assessment Short-term (acute) aquatic hazard	:  Acute aquatic toxicity Category 2; Toxic to aquatic life.
Long-term (chronic) aquatic hazard	: This product has no known ecotoxicological effects.  Not classified based on available information.

#### Components:

##### DIAZOLIDINYL UREA:

Toxicity to fish	: LC50 (Fish): > 100 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): 58 mg/l Exposure time: 48 h Test Type: flow-through test
Toxicity to algae	: ErC50 (Selenastrum capricornutum (green algae)): 5.78 mg/l End point: EC50 Exposure time: 72 h Test Type: Growth inhibition Analytical monitoring: yes
Ecotoxicology Assessment Long-term (chronic) aquatic	: This product has no known ecotoxicological effects.

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hazard

#### **Persistence and degradability**

##### **Product:**

Biodegradability : Result: Not readily biodegradable.  
Biodegradation: 24 %  
Exposure time: 28 d  
Method: Directive 67/548/EEC Annex V, C.4.C.

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

##### **Components:**

##### **DIAZOLIDINYL UREA:**

Biodegradability : Result: Not readily biodegradable.  
Biodegradation: 24 %  
Exposure time: 28 d  
Method: Directive 67/548/EEC Annex V, C.4.C.

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:**

##### **DIAZOLIDINYL 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  
Medium: Soil  
Koc: < 2


##### **Components:**

##### **DIAZOLIDINYL UREA:**

Distribution among environmental compartments : Adsorption/Soil  
Medium: Soil  
Koc: < 2

#### **Other adverse effects**

##### **Product:**

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

**Components:**

DIAZOLIDINYL UREA:

Results of PBT and vPvB assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

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

## 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.

#### U.S. DOT - ROAD

Not dangerous goods

#### CFR\_RAIL\_C

Not dangerous goods

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

Not dangerous goods

#### TDG\_ROAD\_C

Not dangerous goods

#### TDG\_RAIL\_C

Not dangerous goods

#### TDG\_INWT\_C

Not dangerous goods

#### INTERNATIONAL MARITIME DANGEROUS GOODS

Not dangerous goods

#### INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO

Not dangerous goods

#### INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER

Not dangerous goods


#### MX\_DG

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.

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## 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.

**SARA 311/312 Hazards** : Combustible Dust  
Serious eye damage or eye irritation

**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

DIAZOLIDINYL UREA 78491-02-8


#### New Jersey Right To Know

DIAZOLIDINYL UREA 78491-02-8

#### 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.



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**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	: Not in compliance with the inventory
ISHL	: On the inventory, or 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
IECSC	: On the inventory, or in compliance with the inventory
NZIoC	: Not in compliance with the inventory
TECI	: 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
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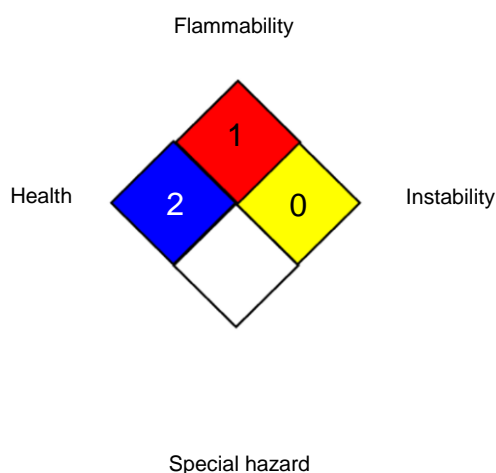
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**SECTION 16. OTHER INFORMATION**

**Further information**

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#### 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

H319 Causes serious eye irritation.

#### Full text of other abbreviations

AIIC - 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; KECl - 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

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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/R0717501\\_Annex\\_EN.pdf](http://www.ashland.com/file_source/Ashland/About/Documents/R0717501_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.  
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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