

**SAFETY DATA SHEET**

Revision Date: 06/09/2020

Print Date: 6/12/2020

SDS Number: R0717515

Version: 1.4

Liquid Germall™ PLUS preservative  
™ Trademark, Ashland or its subsidiaries, registered  
in various countries  
828439

29 CFR 1910.1200 (OSHA HazCom 2012)

**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION****Product identifier**

Trade name : Liquid Germall™ PLUS  
preservative  
™ Trademark, Ashland or its subsidiaries, registered in  
various countries

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

Recommended use : Preservative

**Details of the supplier of the safety data sheet**

Ashland  
P.O. Box 2219  
Columbus, OH 43216  
United States of America (USA)  
1-614-790-3333

EHSProductSafety@ashland.com

**Emergency telephone number**

1-800-ASHLAND (1-800-274-5263)

**Regulatory information**

1-614-790-3333 (customer service)

**Product Information**

1-614-790-3333

**SECTION 2. HAZARDS IDENTIFICATION****GHS Classification**

Eye irritation : Category 2A

Skin sensitization : Category 1

**GHS label elements**

Hazard pictograms :



Signal Word : Warning

Hazard Statements : May cause an allergic skin reaction.  
Causes serious eye irritation.

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**Precautionary Statements****: Prevention:**

Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.  
 Wash skin thoroughly after handling.  
 Contaminated work clothing must not be allowed out of the workplace.  
 Wear protective gloves/ eye protection/ face protection.

**Response:**

IF ON SKIN: Wash with plenty of soap and water.  
 IF IN EYES: Rinse cautiously with water for several minutes.  
 Remove contact lenses, if present and easy to do. Continue rinsing.  
 If skin irritation or rash occurs: Get medical advice/ attention.  
 If eye irritation persists: Get medical advice/ attention.  
 Wash contaminated clothing before reuse.

**Disposal:**

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

**Other hazards**

None known.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture

: Mixture

**Hazardous components**

Chemical name	CAS-No.	Classification	Concentration (%)
ALKYL GLYCOL	254504001-5231	This material is not considered hazardous under the OSHA Hazard Communication Standard (HazCom 2012).	>= 50.00 - < 60.00

The identity and concentration of one or more component(s) is being withheld under business confidentiality.

DIAZOLIDINYL UREA	78491-02-8	Comb Dust Eye Irrit. 2A; H319	39.5601
3-iodo-2-propynyl butyl carbamate	55406-53-6	Comb Dust Acute Tox. 4; H302	0.5024



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Acute Tox. 3; H331

Eye Dam. 1; H318

Skin Sens. 1; H317

STOT SE 3; H335

STOT RE 1; H372

### SECTION 4. FIRST AID MEASURES

- |   |   |
|---|---|
| General advice  | : Move out of dangerous area.<br>Show this safety data sheet to the doctor in attendance.<br>Do not leave the victim unattended.  |
| If inhaled  | : If breathed in, move person into fresh air.<br>If unconscious, place in recovery position and seek medical advice.<br>If symptoms persist, call a physician.  |
| In case of skin contact                                     | : Remove contaminated clothing. If irritation develops, get medical attention.<br>If on skin, rinse well with water.<br>First aid is not normally required. However, it is recommended that exposed areas be cleaned by washing with soap and water.<br>Wash contaminated clothing before re-use. |
| In case of eye contact                                      | : Immediately flush eye(s) with plenty of water.<br>Remove contact lenses.<br>Protect unharmed eye.   |
| If swallowed  | : 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 | : Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include:<br>irritation (nose, throat, airways)<br>May cause an allergic skin reaction.<br>Causes serious eye irritation.                                     |



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Notes to physician : No hazards which require special first aid measures.

### SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
 Water spray  
 Foam  
 Carbon dioxide (CO<sub>2</sub>)  
 Dry chemical

Unsuitable extinguishing media : High volume water jet

Hazardous combustion products : Carbon dioxide (CO<sub>2</sub>)  
 Carbon monoxide  
 Aldehydes  
 Hydrocarbons  
 Ketones

Specific extinguishing methods :

Product is compatible with standard fire-fighting agents.

Further information : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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

### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.  
 Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.

Environmental precautions : Prevent product from entering drains.  
 Prevent further leakage or spillage if safe to do so.  
 If the product contaminates rivers and lakes or drains inform respective authorities.

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Methods and materials for containment and cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
Keep in suitable, closed containers for disposal.

Other information : Comply with all applicable federal, state, and local regulations.

## SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Advice on safe handling : Do not breathe vapours/dust.  
Do not smoke.  
Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.  
Container hazardous when empty.  
Avoid exposure - obtain special instructions before use.  
Avoid contact with skin and eyes.  
Smoking, eating and drinking should be prohibited in the application area.  
For personal protection see section 8.  
Dispose of rinse water in accordance with local and national regulations.

Conditions for safe storage : Protect from frost.  
  
Keep container tightly closed in a dry and well-ventilated place.  
Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Further information on storage conditions : Do not store above 30° C / 86° F.

Further information on storage stability : No decomposition if stored and applied as directed.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

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ALKYL GLYCOL

 254504001-  
5231

TWA

10 mg/m3

US WEEL

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**Hazardous components without workplace control parameters**

Components	CAS-No.
DIAZOLIDINYL UREA	78491-02-8
3-IODO-2-PROPYNYL BUTYL CARBAMATE	55406-53-6

**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 vapour formation use a 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.  
The suitability for a specific workplace should be discussed with the producers of the protective gloves.

**Eye protection** : Wear chemical splash goggles when there is the potential for exposure of the eyes to liquid, vapor or mist.

**Skin and body protection** : Wear as appropriate:  
 Impervious clothing  
 Safety shoes  
 Choose body protection according to the amount and concentration of the dangerous substance at the work place.  
 Discard gloves that show tears, pinholes, or signs of wear.  
 Wear resistant gloves (consult your safety equipment supplier).

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

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Physical state : liquid

Colour : colourless

Odour : characteristic

Odour Threshold : No data available

pH : No data available

Melting point/freezing point : -83.00 °F / -63.89 °C

Boiling point/boiling range : 378.00 °F / 192.22 °C

Flash point : 98.89 °C

Evaporation rate : No data available

Flammability (solid, gas) : No data available

Upper explosion limit : No data available

Lower explosion limit : No data available

Vapour pressure : 0.09576 hPa (20 °C)

Relative vapour density : No data available

Relative density : No data available

Density : 1.15 - 1.25 g/cm<sup>3</sup> (20 °C)

Solubility(ies)

Water solubility : soluble

Solubility in other solvents : No data available



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Partition coefficient: n-octanol/water : No data available

Thermal decomposition : No data available

Viscosity  
 Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Oxidizing properties : No data available

### SECTION 10. STABILITY AND REACTIVITY

Reactivity : No decomposition if stored and applied as directed.

Chemical stability : Stable under recommended storage conditions.

Possibility of hazardous reactions : Product will not undergo hazardous polymerization.

Conditions to avoid : excessive heat  
 Exposure to sunlight.  
 Exposure to moisture

Incompatible materials : isocyanates  
 Strong acids  
 strong bases  
 Strong oxidizing agents

Hazardous decomposition products : Carbon monoxide  
 Carbon dioxide (CO<sub>2</sub>)

### SECTION 11. TOXICOLOGICAL INFORMATION

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

#### Acute toxicity

Not classified based on available information.





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### Components:

#### ALKYL GLYCOL:

Acute oral toxicity : LD50 (Rat): 22,000 mg/kg

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg  
 Assessment: Not classified as acutely toxic by dermal absorption under GHS.  
 Remarks: No mortality observed at this dose.

### 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.

#### 3-iodo-2-propynyl butyl carbamate:

Acute oral toxicity : LD50 (Rat): 1,153 mg/kg

Acute inhalation toxicity : LC50 (Rat): 0.67 mg/l  
 Exposure time: 4 h  
 Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rat): > 5,000 mg/kg

### **Skin corrosion/irritation**

Not classified based on available information.

### Product:

Remarks: May cause skin irritation in susceptible persons.

### Components:

#### ALKYL GLYCOL:

Species: Rabbit  
 Result: No skin irritation

### Components:

#### DIAZOLIDINYL UREA:

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

#### 3-iodo-2-propynyl butyl carbamate:

Result: Slight, transient irritation

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**Serious eye damage/eye irritation**

Causes serious eye irritation.

**Product:**

Remarks: Vapours may cause irritation to the eyes, respiratory system and the skin., Causes serious eye irritation.

**Components:**

ALKYL GLYCOL:

Species: Rabbit

Result: No eye irritation

**Components:**

DIAZOLIDINYL UREA:

Species: Rabbit

Result: Irritating to eyes.

Method: OPPTS 870.2400

3-iodo-2-propynyl butyl carbamate:

Result: Corrosive

**Respiratory or skin sensitisation**

Skin sensitisation: May cause an allergic skin reaction.

Respiratory sensitisation: Not classified based on available information.

**Components:**

ALKYL GLYCOL:

Test Type: Local lymph node assay

Species: Mouse

Assessment: Does not cause skin sensitisation.

Method: OECD Test Guideline 429

**Components:**

DIAZOLIDINYL UREA:

Test Type: Maximisation Test

Species: Guinea pig

Assessment: Did not cause sensitisation on laboratory animals.

Method: OECD Test Guideline 406

3-iodo-2-propynyl butyl carbamate:

Assessment: May cause sensitisation by skin contact.

Germ cell mutagenicity

Not classified based on available information.

**Components:**

ALKYL GLYCOL:

Genotoxicity in vitro : Test Type: Ames test

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Test species: Salmonella typhimurium  
Metabolic activation: with and without metabolic activation  
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.

### **Components:**

DIAZOLIDINYL UREA:

Effects on foetal  
development

: Test Type: Embryo-foetal development  
Species: Rat  
Application Route: Oral  
Dose: 500 milligram per kilogram

### **STOT - single exposure**

Not classified based on available information.

### **Components:**

3-iodo-2-propynyl butyl carbamate:

Target Organs: Respiratory Tract

Assessment: May cause respiratory irritation.

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**STOT - repeated exposure**

Not classified based on available information.

**Components:**

3-iodo-2-propynyl butyl carbamate:

Target Organs: larynx

Assessment: The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 1.

**Repeated dose toxicity****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.

**Product:**

No aspiration toxicity classification

**Further information****Product:**

Remarks: No data available

**Carcinogenicity:****IARC**

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

**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity****Product:**

Ecotoxicology Assessment

Short-term (acute) aquatic hazard : Acute aquatic toxicity Category 2; Toxic to aquatic life.

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Long-term (chronic) aquatic hazard : Chronic aquatic toxicity Category 3; Harmful to aquatic life with long lasting effects.

### Components:

#### ALKYL GLYCOL:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 29,485 - 39,339 mg/l  
Exposure time: 96 h  
Test Type: semi-static test

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 10,000 mg/l  
Exposure time: 48 h  
Test Type: static test

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (green algae)): 24,200 mg/l  
End point: Growth inhibition  
Exposure time: 72 h  
Test Type: static test

#### 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 hazard : This product has no known ecotoxicological effects.

#### 3-iodo-2-propynyl butyl carbamate:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0.067 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.16 mg/l  
Exposure time: 48 h

Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): 0.022 mg/l

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Exposure time: 72 h

 M-Factor (Short-term (acute)  
 aquatic hazard) : 10

 Toxicity to fish (Chronic toxicity) : NOEC (Pimephales promelas (fathead minnow)): 0.0084 mg/l  
 Exposure time: 35 d

 Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia (water flea)): 0.05 mg/l  
 Exposure time: 21 d

M-Factor (Long-term (chronic) aquatic hazard) : 1

**Persistence and degradability**
**Components:**

ALKYL GLYCOL:

 Biodegradability : Result: Readily biodegradable.  
 Biodegradation: 81 %  
 Exposure time: 28 d  
 Method: OECD Test Guideline 301F

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

3-iodo-2-propynyl butyl carbamate:

Biodegradability : Result: rapidly biodegradable

No data available

**Bioaccumulative potential**
**Components:**

ALKYL GLYCOL:

Partition coefficient: n-octanol/water : log Pow: -0.92

DIAZOLIDINYL UREA:

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

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



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### 3-iodo-2-propynyl butyl carbamate:

Bioaccumulation : Species: Cyprinus carpio (Carp)  
 Bioconcentration factor (BCF): 4.5  
 Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-octanol/water : log Pow: 2.81

No data available

#### Mobility in soil

##### Components:

##### DIAZOLIDINYL UREA:

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

No data available

#### Other adverse effects

##### Product:

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

##### 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).

## 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.  
 Dispose of in accordance with all applicable local, state and federal regulations.

Contaminated packaging : Empty remaining contents.  
 Dispose of as unused product.  
 Empty containers should be taken to an approved waste handling site for recycling or disposal.

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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

**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
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**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.

**SECTION 15. REGULATORY INFORMATION****EPCRA - Emergency Planning and Community Right-to-Know Act  
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** : Serious eye damage or eye irritation  
Respiratory or skin sensitisation

**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**

ALKYL GLYCOL

254504001-  
5231

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DIAZOLIDINYL UREA

78491-02-8

**New Jersey Right To Know**

ALKYL GLYCOL

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DIAZOLIDINYL UREA

78491-02-8

**California Prop. 65**

This product contains a chemical that is at or below California Propositions 65's "safe harbor level" as determined via a risk assessment. Therefore, the chemical is not required to be listed as a Prop 65 chemical on the SDS or label.

**The components of this product are reported in the following inventories:**

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

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

ENCS : 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

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

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

TSCA : On TSCA Inventory

**Inventories**

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (USA)  
- On or in compliance with the active portion of the TSCA inventory

**SECTION 16. OTHER INFORMATION****Further information**

Revision Date: 06/09/2020

**NFPA:****HMIS III:**



## SAFETY DATA SHEET

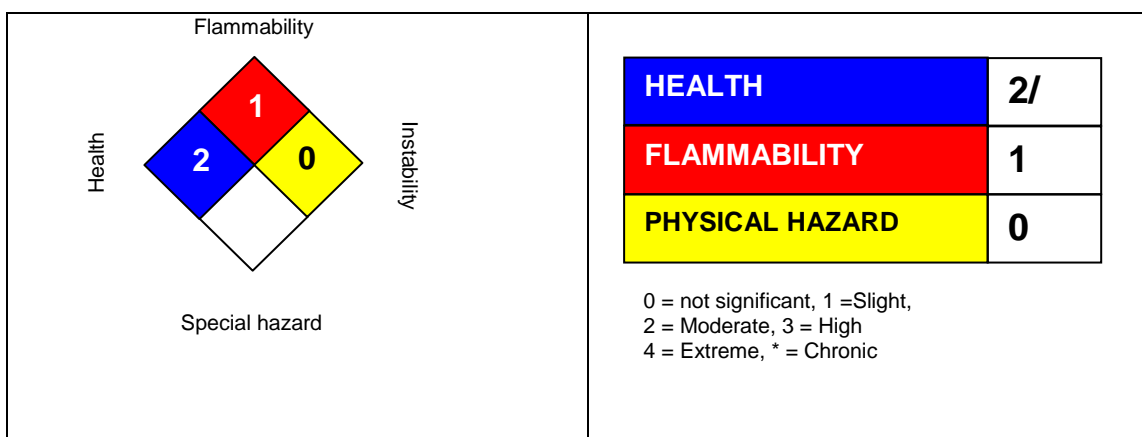
Revision Date: 06/09/2020

Print Date: 6/12/2020

SDS Number: R0717515

Version: 1.4

Liquid Germall™ PLUS preservative  
 ™ Trademark, Ashland or its subsidiaries, registered  
 in various countries  
 828439



### NFPA Flammable and Combustible Liquids Classification

Combustible Liquid Class IIIB

### Full text of H-Statements

H302	Harmful if swallowed.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H335	May cause respiratory irritation.
H372	Causes damage to organs through prolonged or repeated exposure.

Sources of key data used to compile the Safety Data Sheet

Ashland internal data including own and sponsored test reports

The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport.

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This SDS has been prepared by Ashland's Environmental Health and Safety Department (1-800-325-3751).

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**Full text of other abbreviations**

AICS - Australian Inventory of Chemical Substances; 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; 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