

**SAFETY DATA SHEET**

Revision Date: 09/28/2020

Print Date: 11/30/2020

SDS Number: R0718390

Version: 1.7

Surfadone™ LP-300 Wetting Agents  
™ Trademark, Ashland or its subsidiaries, registered  
in various countries  
831981

29 CFR 1910.1200 (OSHA HazCom 2012)

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

Trade name : Surfadone™ LP-300  
Wetting Agents  
™ Trademark, Ashland or its subsidiaries, registered in  
various countries

Substance name n-(n-dodecyl)pyrrolidinone

Substance No.  
Index-No. 613-099-00-6

EC-No. 403-730-1

CAS-No. 2687-96-9

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

Recommended use : Wetting agent  
Manufacture of soaps and detergents.  
Surfactant for the paint and coatings industry  
Manufacture of cosmetics.  
Agrochemicals  
Rubber chemicals.

**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

EHSPProductSafety@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**

Skin corrosion : Category 1B



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Serious eye damage : Category 1

Skin sensitization : Category 1

### GHS label elements

Hazard pictograms :



Signal Word : Danger

Hazard Statements : Causes severe skin burns and eye damage.  
 May cause an allergic skin reaction.

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/ protective clothing/ eye protection/ face protection.  
**Response:**  
 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.  
 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.  
 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.  
 If skin irritation or rash occurs: Get medical advice/ attention.  
 Wash contaminated clothing before reuse.  
**Storage:**  
 Store locked up.  
**Disposal:**  
 Dispose of contents/ container to an approved waste disposal plant.

### Other hazards

None known.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

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Substance / Mixture : Substance

**Hazardous components**

Chemical name	CAS-No.	Classification	Concentration (%)
1-DODECYL-2-PYRROLIDONE	2687-96-9	Skin Corr. 1B; H314  Eye Dam. 1; H318  Skin Sens. 1; H317	100.00

**SECTION 4. FIRST AID MEASURES**

- General advice : Move out of dangerous area.  
 Consult a physician.  
 Show this safety data sheet to the doctor in attendance.  
 Do not leave the victim unattended.
- If inhaled : Move to fresh air.  
 If breathed in, move person into fresh air.  
 Keep patient warm and at rest.  
 If unconscious, place in recovery position and seek medical advice.  
 If symptoms persist, call a physician.
- In case of skin contact : Remove contaminated clothing. If irritation develops, get medical attention.  
 If on skin, rinse well with water.  
 Wash contaminated clothing before re-use.
- In case of eye contact : In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
 Continue rinsing eyes during transport to hospital.  
 Remove contact lenses.  
 Protect unharmed eye.
- If swallowed : Get medical attention immediately.  
 Do NOT induce vomiting.  
 Rinse mouth with water.  
 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 : The most important known symptoms and effects are



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and effects, both acute and  
 delayed

described in the labelling (see Section 2.2) and/or Section 11.  
 May cause an allergic skin reaction.  
 Causes serious eye damage.  
 Causes severe burns.

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

Specific hazards during firefighting : If product is heated above its flash point it will produce vapors  
 sufficient to support combustion. Vapors are heavier than air  
 and may travel along the ground and be ignited by heat, pilot  
 lights, other flames and ignition sources at locations near the  
 point of release.  
 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 :

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

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- |   |  |
|---|--|
| Personal precautions,<br>protective equipment and<br>emergency procedures | : Use personal protective equipment.<br>Persons not wearing protective equipment should be excluded<br>from area of spill until clean-up has been completed.                                 |
| 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                  | : Soak up with inert absorbent material (e.g. sand, silica gel,<br>acid binder, universal binder, sawdust).<br>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<br>fire and explosion | : Normal measures for preventive fire protection.   |
| Advice on safe handling                            | : Do not breathe vapours/dust.<br>Do not smoke.<br>Persons susceptible to skin sensitisation 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.<br>Container hazardous when empty.<br>Avoid exposure - obtain special instructions before use.<br>Avoid contact with skin and eyes.<br>Smoking, eating and drinking should be prohibited in the<br>application area.<br>For personal protection see section 8.<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>Observe label precautions.  |
| Further information on<br>storage stability        | : No decomposition if stored and applied as directed.   |

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**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Components with workplace control parameters**

Contains no substances with occupational exposure limit values.

**Hazardous components without workplace control parameters**

Components	CAS-No.
1-DODECYL-2-PYRROLIDONE	2687-96-9

**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 and face shield when there is potential for exposure of the eyes or face to liquid, vapor or mist.  
Maintain eye wash station in immediate work area.

**Skin and body protection** : Wear as appropriate:  
Impervious clothing  
Chemical resistant apron  
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.



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Wear resistant gloves (consult your safety equipment supplier).

Hygiene measures : Wash hands before breaks and at the end of workday.  
 When using do not eat or drink.  
 Ensure that eyewash stations and safety showers are close to the workstation location.  
 When using do not smoke.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Physical state : liquid

Colour : clear, cloudy

Odour : slight, amine-like

Odour Threshold : No data available

pH : No data available

Melting point/range : 25 °F / -4 °C

Boiling point/boiling range : 577 - 669 °F / 303 - 354 °C  
 (1,006 hPa)

Flash point : 119.5 °C (1,027 hPa)

Evaporation rate : not determined

Upper explosion limit : Upper explosion limit not determined

Lower explosion limit : Lower explosion limit not determined

Vapour pressure : 0.00204 Pa (25 °C)

Relative vapour density : not determined

Relative density : No data available

Density : 0.9041 g/cm<sup>3</sup>

Solubility(ies)

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Water solubility : 0.0517 g/l (20 °C)

Solubility in other solvents : No data available

Partition coefficient: n-octanol/water : log Pow: 4.03

Thermal decomposition : No data available

**Viscosity**

Viscosity, dynamic : not determined

Viscosity, kinematic : not determined

Oxidizing properties : Not applicable

Molecular weight : 253.43 g/mol

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**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 : Keep away from heat, flame, sparks and other ignition sources.

Incompatible materials : Strong oxidizing agents

Hazardous decomposition products : Nitrogen oxides (NO<sub>x</sub>)

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**SECTION 11. TOXICOLOGICAL INFORMATION**

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



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**Ingestion****Acute toxicity**

Not classified based on available information.

**Components:**

1-DODECYL-2-PYRROLIDONE:

Acute oral toxicity : LD50 (Rat, male and female): 2.05 g/kg  
Remarks: Information given is based on data obtained from  
similar substances.

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg

**Skin corrosion/irritation**

Causes severe burns.

**Product:**

Remarks: May cause skin irritation in susceptible persons., Causes severe skin burns and eye  
damage.

**Components:**

1-DODECYL-2-PYRROLIDONE:

Result: Corrosive after 3 minutes to 1 hour of exposure

**Serious eye damage/eye irritation**

Causes serious eye damage.

**Product:**

Remarks: May cause irreversible eye damage.

**Components:**

1-DODECYL-2-PYRROLIDONE:

Result: Corrosive

**Respiratory or skin sensitisation**

Skin sensitisation: May cause an allergic skin reaction.

Respiratory sensitisation: Not classified based on available information.

**Components:**

1-DODECYL-2-PYRROLIDONE:

Assessment: May cause sensitisation by skin contact.

Germ cell mutagenicity

Not classified based on available information.

**Components:**

1-DODECYL-2-PYRROLIDONE:

Genotoxicity in vitro : Test Type: Ames test  
Test species: Salmonella typhimurium  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative



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: Test Type: In vitro mammalian cell gene mutation test  
 Test species: mouse lymphoma cells  
 Metabolic activation: with and without metabolic activation  
 Method: OECD Test Guideline 476  
 Result: negative

Genotoxicity in vivo

: Test Type: In vivo micronucleus test  
 Test species: Mouse  
 Method: OECD Test Guideline 474  
 Result: negative

### Carcinogenicity

Not classified based on available information.

### Reproductive toxicity

Not classified based on available information.

### Components:

1-DODECYL-2-PYRROLIDONE:

Effects on fertility

: Species: Rat  
 Application Route: Oral  
 General Toxicity - Parent: No observed adverse effect level:  
 100 mg/kg bw/day  
 General Toxicity F1: No observed adverse effect level: 300  
 mg/kg bw/day  
 Fertility: No observed adverse effect level Parent: 1,000 mg/kg  
 body weight  
 Symptoms: Reduced maternal body weight gain Reduced  
 maternal food consumption Reduced foetal weight  
 Method: OECD Test Guideline 415  
 Remarks: Information given is based on data obtained from  
 similar substances.

Method: OECD Test Guideline 415

Remarks: Fertility and developmental toxicity tests did not  
 reveal any effect on reproduction.

### STOT - single exposure

Not classified based on available information.

### STOT - repeated exposure

Not classified based on available information.

### Repeated dose toxicity

### Components:

1-DODECYL-2-PYRROLIDONE:

Species: Dog

No observed adverse effect level: 38 mg/kg

Application Route: Oral



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Exposure time: 90-day

Target Organs: Liver

Remarks: Information given is based on data obtained from similar substances.

Species: Dog

Lowest observed adverse effect level: 115 mg/kg

Application Route: Oral

Exposure time: 90-day

Remarks: Information given is based on data obtained from similar substances.

Species: Rat

No observed adverse effect level: 100 mg/kg

Application Route: Oral

Exposure time: 28-day

### Aspiration toxicity

Not classified based on available information.

### 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 1; Very toxic to aquatic life.

Long-term (chronic) aquatic hazard : Chronic aquatic toxicity Category 1; Very toxic to aquatic life with long lasting effects.

#### Components:

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**1-DODECYL-2-PYRROLIDONE:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0.59 mg/l  
 Exposure time: 96 h  
 Test Type: flow-through test

LC50 (Lepomis macrochirus (Bluegill sunfish)): 0.93 mg/l  
 Exposure time: 96 h  
 Test Type: static test

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.139 mg/l  
 Exposure time: 48 h  
 Test Type: flow-through test

EC50 (Daphnia magna (Water flea)): 0.27 mg/l  
 Exposure time: 48 h  
 Test Type: static test

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (green algae)): 0.086 mg/l  
 End point: Growth inhibition  
 Exposure time: 72 h  
 Test Type: static test

NOEC (Pseudokirchneriella subcapitata (algae)): 0.046 mg/l  
 End point: Growth inhibition  
 Exposure time: 72 h  
 Test Type: static test

M-Factor (Short-term (acute) aquatic hazard) : 1

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

Toxicity to bacteria : EC50 (activated sludge): 36.4 mg/l  
 Exposure time: 3 h  
 Test Type: Static  
 Method: OECD Test Guideline 209

EC10 (activated sludge): 22.2 mg/l  
 Exposure time: 3 h  
 Test Type: Static  
 Method: OECD Test Guideline 209

**Persistence and degradability****Product:**

Biodegradability : Result: Readily biodegradable.

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Biodegradation: 74.20 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B

**Components:****1-DODECYL-2-PYRROLIDONE:**

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 74.20 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B

No data available

**Bioaccumulative potential****Components:****1-DODECYL-2-PYRROLIDONE:**

Partition coefficient: n- : log Pow: 4.03  
octanol/water

No data available

**Mobility in soil****Components:**

No data available

**Other adverse effects****Product:**

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

**Components:****1-DODECYL-2-PYRROLIDONE:**

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

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**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.

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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.  
 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.
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**U.S. DOT - ROAD**

UN 3267	Corrosive liquid, basic, organic, n.o.s. (1-DODECYL-2-PYRROLIDONE)	8		II	MARINE POLLUTANT:(1-DODECYL-2-PYRROLIDONE)
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**CFR\_RAIL\_C**

UN 3267	Corrosive liquid, basic, organic, n.o.s. (1-DODECYL-2-PYRROLIDONE)	8		II	MARINE POLLUTANT:(1-DODECYL-2-PYRROLIDONE)
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**U.S. DOT - INLAND WATERWAYS**

UN 3267	Corrosive liquid, basic, organic, n.o.s. (1-DODECYL-2-PYRROLIDONE)	8		II	MARINE POLLUTANT:(1-DODECYL-2-PYRROLIDONE)
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**TDG\_ROAD\_C**

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UN	3267	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (1- DODECYL-2-PYRROLIDONE)	8	II
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**TDG RAIL C**

UN	3267	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (1- DODECYL-2-PYRROLIDONE)	8	II
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**TDG INWT C**

UN	3267	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (1- DODECYL-2-PYRROLIDONE)	8	II	MARINE POLLUTANT:( 1-DODECYL- 2- PYRROLIDON E)
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**INTERNATIONAL MARITIME DANGEROUS GOODS**

UN	3267	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (1- DODECYL-2-PYRROLIDONE)	8	II	MARINE POLLUTANT:( 1-DODECYL- 2- PYRROLIDON E)
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**INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO**

UN	3267	Corrosive liquid, basic, organic, n.o.s. (1-DODECYL-2- PYRROLIDONE)	8	II
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**INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER**

UN	3267	Corrosive liquid, basic, organic, n.o.s. (1-DODECYL-2- PYRROLIDONE)	8	II
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**MX DG**

UN	3267	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (1- DODECYL-2-PYRROLIDONE)	8	II
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**\*ORM = ORM-D, CBL = COMBUSTIBLE LIQUID**

Marine pollutant	yes
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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 TSCA 12(b) export notification requirements.

### 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  
 Skin corrosion or 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

1-DODECYL-2-PYRROLIDONE

2687-96-9

#### New Jersey Right To Know

1-DODECYL-2-PYRROLIDONE

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### California Prop. 65

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

### 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	: 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
TCSI	: On the inventory, or in compliance with the inventory
TSCA	: On or in compliance with the active portion of the TSCA inventory

### Inventories

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

## SECTION 16. OTHER INFORMATION

### Further information

## SAFETY DATA SHEET

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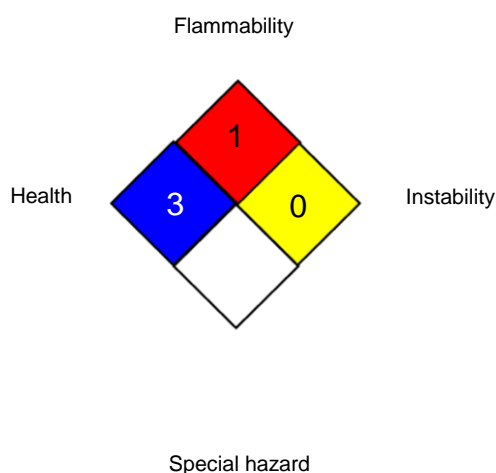
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Surfadone™ LP-300 Wetting Agents  
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### NFPA 704:



### HMIS® IV:

HEALTH	/	3
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

- H314 Causes severe skin burns and eye damage.  
H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.

### Full text of other abbreviations

AICS - Australian Inventory of Chemical Substances; 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 -

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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

This sds has been prepared by Ashland. (<http://www.ashland.com>)

Sources of key data used to compile the 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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