



Safety Data Sheet (91/155/EEC)

72379I

Revision Date: 07/30/2004

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SURFADONE® LP-100

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Identification of the substance/preparation

Product Id: 72379I
Product Name: SURFADONE® LP-100
CAS Registry Number: 2687-94-7
CAS Name: 2-Pyrrolidinone, 1-octyl
EEC Name: 1-Octyl-2-pyrrolidone
Formula: C₁₂H₂₃NO
Molecular Weight: 197.00
Responsible Party: International Specialty Products
1361 Alps Rd.
Wayne, NJ 07470, U.S.A.
Telephone: (973) 628-4000

Distributed By:
ISP (Great Britain) Co. Ltd.
Waterfield, Tadworth
Surrey KT20 5HQ, United Kingdom
Tel: +44 161 998 1122

Synonyms: Caprylyl pyrrolidone (INCI NAME)

Emergency Telephone Number: +32.3.575.55.55 (SGS)

Prepared By: Product Stewardship

2. COMPOSITION/INFORMATION ON INGREDIENTS

Components:	Weight %	EU Classification:	German MAK:	UK OES/MEL:
1-OCTYL-2-PYRROLIDONE 2687-94-7	99	N; R51/53 C; R34	Not determined	Not determined

3. HAZARDS IDENTIFICATION



Indication of Danger:

C Corrosive. N Dangerous for the environment

Risk Phrases: R34 - Causes burns.
R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Hazard Overview

Target Organs: Skin / Eyes / Respiratory System / Gastrointestinal Tract

Primary Entry Routes: Dermal - skin. Eyes. Inhalation.

Acute Health Hazards: Corrosive. Causes eye burns. Causes permanent skin damage.

Chronic Health Hazards: None known

Signs and Symptoms of Overexposure

Eye Contact: Causes eye burns.

Skin Contact: Causes permanent skin damage.

Ingestion: Causes burns of the mouth, throat and stomach.

Inhalation: Corrosive to respiratory passages.

4. FIRST AID MEASURES

Eye Contact: In case of contact, or suspected contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention immediately after flushing.

Skin Contact: In case of contact, immediately flush skin with plenty of soap and water for at least 15 minutes. Get medical attention. Remove contaminated clothing and launder before reuse.

Ingestion: Seek immediate medical attention. Do not induce vomiting. Slowly dilute with 1-2 glasses of water or milk and seek medical attention. Never give anything by mouth to an unconscious person.

Inhalation: If inhaled, remove to fresh air. If not breathing or if breathing is difficult, give artificial respiration or oxygen by trained personnel. Seek medical attention.

5. FIRE-FIGHTING MEASURES

Flash Point (°F): 235

Extinguishing Media: All standard firefighting media

Unusual Fire/Explosion Hazards: Unknown

Special Protective Equipment: Fire fighters should wear full protective clothing, including self-contained breathing equipment.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautionary Measures: Use appropriate protective equipment.

Procedure for Cleaning/Absorption: Contain spill with sand or other inert materials.

7. HANDLING AND STORAGE

Handling: Do not get on skin or in eyes. Do not breathe material. Do not swallow material. Where splashing is possible, full chemically resistant protective clothing is required. Acid suit and boots are required. Wash thoroughly with soap and water after handling.

Storage: Keep containers tightly closed when not in use. Store in a cool, dry place, out of direct sunlight.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls: Use in a well ventilated area.

Respiratory Protection: Use in a well ventilated area. Wear a NIOSH approved respirator appropriate for airborne exposure at the point of use.

Hand Protection: All cleanable impervious glove types are acceptable.

Eye Protection: Chemical goggles; also wear a face shield if splashing hazard exists.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid

Color: Clear to hazy

pH: 7.0-10.0

Specific Gravity: 0.92 @25°C

Boiling Point (°F): 212 @ 0.3 mm Hg

Melting Point/Freezing Point(°F): -13

Vapor Pressure: <0.001 @20°C (est.)

Solubility: Slightly soluble in water

10. STABILITY AND REACTIVITY

Chemical Stability: Stable under normal conditions of handling, use and transportation.

Hazardous Polymerization: Will not occur

Conditions to Avoid: Not determined.

Hazardous Decomposition Products: Oxides of nitrogen.

11. TOXICOLOGICAL INFORMATION

Toxicity Test:

Acute Oral LD50 (mg/kg): 2,050 (rat)

Acute Dermal LD50 (mg/kg): >2,000 (rabbit)

Sensitization: Evidence of delayed contact hypersensitivity in 2/20 animals (Guinea pig Maximization Study)
Human RIPT: Non-sensitizing

Mutagenicity: Non-mutagenic (Ames assay).
Non-mutagenic (Mouse micronucleus)
Non-mutagenic (Mouse lymphoma)

Skin Irritation: Minimally irritating to rabbit skin (2% solution in water).
Extremely irritating to rabbit skin (as sold)
DOT Corrosive (as sold)

Eye Irritation: Non-irritating to rabbit eye with and without washout (2% aqueous suspension)
Extremely irritating to rabbit eye (as sold)

Other Information: 28 Day Subacute Oral Toxicity: (rat) NOEL= 55mg/kg/day.
90 Day Subchronic Oral Toxicity: 30,90, 240 mg/kg/day no adverse effect level = 30 mg/kg/day
90 Day Rat Feeding Study: 60, 600 & 10,000 ppm. NOEL= 600 ppm
Comedogenicity: Expected to be non-Comedogenic (humans). Rabbit comedogenicity assay score = 0.67 on a scale of 0-5.
Photoallergy: Non-photoallergenic
Phototoxicity: Non-phototoxic.

12. ECOLOGICAL INFORMATION

Biodegradability: Modified Semi-Continuous Activated Sludge Test: Ultimately Biodegradable (99.4%)
Modified Sturm Test: Readily biodegradable Readily biodegradable (>80%)

Aquatic Toxicity: 96 hr. Static LC50 (Bluegill sunfish): 22.5 mg/L
48 hr. Static EC50 (Daphnia Magna): 19.1 mg/L
96 hr. Static EC50 (Selenatrum Capricornutum): 6.20 mg/L; 96 hr. NOEC: 3.26 mg/L
96 hr. Flow-through LC50= 17.8 mg/L (Rainbow Trout)
Bobwhite LD50:1,838 mg/kg (acute oral)
Bobwhite LC50: >5,620 ppm (dietary)

13. DISPOSAL CONSIDERATIONS

Disposal of Waste Method: Follow all applicable community, national or regional regulations regarding waste management methods.

14. TRANSPORT INFORMATION

Land Transportation:

DOT (Non-Bulk):

DOT Shipping Name: CORROSIVE LIQUID, N.O.S. (N-(n-octyl)-2-pyrrolidone)

UN/NA Number: 1760

Hazard Class: 8

Packing Group: III

DOT (Bulk):

DOT Shipping Name: CORROSIVE LIQUID, N.O.S. (N-(n-octyl)-2-pyrrolidone)

UN/NA Number: 1760

Hazard Class: 8

Packing Group: III

Air Transportation (IATA):

Proper Shipping Name: CORROSIVE LIQUID, N.O.S. (N-(n-octyl)-2-pyrrolidone)

UN Number: 1760

Hazard Classification: 8

Packing Group: III

Packaging Instructions IATA Cargo: (820) 60 litres

Packaging Instructions IATA Passenger: (Y-818) 1 litre
(818) 5 litres

Sea Transportation (IMO):

Proper Shipping Name: CORROSIVE LIQUID, N.O.S. (N-(n-octyl)-2-pyrrolidone)

UN/ID Number: 1760

Hazard Classification: 8

Packing Group: III

ADR:

Proper Shipping Name: CORROSIVE LIQUID, N.O.S. (N-(n-octyl)-2-pyrrolidone)

UN: 1760

CLASS: 8

Packing group: III

HI No: 80

TREM Card Classification: 80GC9-II+III

15. REGULATORY INFORMATION

Classification:



Risk Phrases:

R34 - Causes burns.

R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety Phrases:

S23 - Do not breathe fumes.

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S45 - In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).

S61 - Avoid release to the environment.

Refer to special instructions/Safety data sheets.

S 36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.

TSCA Inventory List:

This product and/or its components is listed on TSCA.

**California Proposition 65
Carcinogens & Reproductive
Toxicity (CRT) List:**

None of the components of this product is listed on CALPROP.

Canada DSL Inventory List:

This product and/or its components is listed on DSL.

Canada NDSL Inventory List:

This product and/or its components is not listed on NDSL.

EU EINECS List:

This product and/or its components is not listed on or is exempt from EINECS.

ELINCS:

This product and/or its components is listed on ELINCS.

**Germany VCI Assigned
Classification into Water
Endangering Classes (WGK) List:**

This product and/or its components is listed on or has been reviewed by WGK.

Japan Inventory of Existing & New Chemical Substances (ENCS):

This product and/or its components is not listed on ENCS.

Australia Inventory of Chemical Substances (AICS) List:

This product and/or its components is listed on AICS.

16. OTHER INFORMATION

Prepared By:

Product Stewardship

Legend:

N.Av.= Not Available; N.Ap.= Not Applicable

Important Note:

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