1 PRODUCT AND COMPANY IDENTIFICATION

Product Identifier:	Sunlube
Common Name:	Wax Dispersion in Water
SDS Number:	I59
Revision Date:	8/3/2015
Version:	1
Product Use:	Lubricative Coating
Supplier Details:	Coatings for Industry, Inc. 319 Township Line Road Souderton, PA 18964
Emergency:	Infotrac
Contact:	USA: 1-800-535-5053 / International :352-323-3500
Phone:	215-723-0919
Fax:	215-723-0911
Email:	cs@cficoatings.com
Web:	www.cficoatings.com

2 HAZARDS IDENTIFICATION

Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS):

Health, Skin corrosion/irritation, 2
Health, Serious Eye Damage/Eye Irritation, 2 A
Health, Acute toxicity, 5 Oral

GHS Label elements, including precautionary statements

GHS Signal Word: WARNING

GHS Hazard Pictograms:

GHS Hazard Statements:

H315 - Causes skin irritation
H319 - Causes serious eye irritation
H303 - May be harmful if swallowed

GHS Precautionary Statements:

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P305+351+338 - IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P202 - Do not handle until all safety precautions have been read and understood.
P306+360 - IF ON CLOTHING: Rinse immediately contaminated clothing and skin with plenty of water before removing clothes.
P501 - Dispose of contents/container in accordance with local, state, and federal regulations.

3 COMPOSITION/INFORMATION OF INGREDIENTS

Ingredients:

Cas#	%	Chemical Name
7732-18-5	70-80%	Water
******	20-25%	Trade Secret
68081-81-2	1-5%	Benzenesulfonic acid, mono-C10-16-alkyl derivs., sodium salts
110-91-8	0.1-0.5%	Morpholine

4 FIRST AID MEASURES

Inhalation: If inhaled, remove to fresh air. Give oxygen or artificail respiration if needed. Get immediate medical attention.

Skin Contact: Remove contaminated clothing and footwear immediately, and wash before reuse. Discard clothing and footwear which cannot be decontaminated. Get medical attention if irritation develops and persists.

Eye Contact: Immediately flush eyes with large amounts of water for at least 15 minutes, lifting eyelids occasionally to facilitate irrigation. Then remove contact lenses, if easily removeable, and continue irrigation for not less than 15 minutes. Get immediate medical attention.

Ingestion: Rinse mouth with water. Never give anyting by mouth to an unconscious person. Get prompt, qualified medical attention.
If ingested, do not induce vomiting unless directed to do so by medical personnel. Get medical attention.

5 FIRE FIGHTING MEASURES

Flash Point: Greater than 200F

Flash Point Method: TCC

Unusual Fire and Explosion Hazards - Material will not sustain combustion but closed containers may explode due to build up of steam pressure when exposed to heat.
Hazardous decomposition products formed under fire conditions. Exposure to decomposition products may be a hazard to health.

Extinguishing Media: Dry chemical; carbon dioxide; foam; water spray for large fires.

6 ACCIDENTAL RELEASE MEASURES

Avoid breathing vapors. Ventilate area. Remove with inert absorbent.Dispose of to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Comply with all local, state, and federal waste disposal regulations. Contaminated packaging: Dispose of as unused product.

7 HANDLING AND STORAGE

Handling Precautions: Avoid breathing vapors or mist. Avoid contact with eyes, skin, or clothing. Consider normal working hygiene. Wash thoroughly after handling. Wash clothing before reuse and decontaminate or discard contaminated shoes.

Storage Requirements: Do not store above 120 F.
Keep from freezing.
Do not leave containers open.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Provide general dilution or local exhaust ventilation in volume and pattern to keep TLV of hazardous ingredients below acceptable and stated limits.

Personal Protective Equipment: Skin protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching gloves outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact: Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min Material tested:Dermatril (KCL 740 / Aldrich Z677272, Size M)

Splash contact: Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min Material tested:Dermatril (KCL 740 / Aldrich Z677272, Size M) data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374 If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Eye Protection - Use safety eye wear to protect against splashed liquid.

Hygiene measures: Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Components with workplace control parameters

Morpholine (110-91-8)

TWA 20 ppm USA. ACGIH Threshold Limit Values (TLV)
Upper Respiratory Tract irritation Eye damage Not classifiable as a human carcinogen Danger of cutaneous absorption

TWA 20 ppm USA. OSHA - TABLE Z-1 Limits for Air Contaminants -
70 mg/m3 1910.1000
Skin notation

STEL 30 ppm USA. OSHA - TABLE Z-1 Limits for Air Contaminants -
105 mg/m3 1910.1000
Skin notation

TWA 20 ppm USA. Occupational Exposure Limits (OSHA) - Table Z- 1
70 mg/m3 Limits for Air Contaminants
Skin designation The value in mg/m3 is approximate.

TWA 20 ppm USA. NIOSH Recommended Exposure Limits
70 mg/m3
Potential for dermal absorption

ST 30 ppm USA. NIOSH Recommended Exposure Limits
105 mg/m3
Potential for dermal absorption

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Milky white		
Physical State:	Liquid	**Solubility:**	Miscible
Spec Grav./Density:	0.98 to 1.02	**Freezing/Melting Pt.:**	32F
Boiling Point:	212F		

10 STABILITY AND REACTIVITY

Chemical Stability:	Product is stable under normal conditions.
Materials to Avoid:	Strong Oxidizing Agents.
Hazardous Decomposition:	Combustion will produce carbon dioxide and, possibly toxic chemicals such as carbon monoxide, and oxides of nitrogen.
Hazardous Polymerization:	Will not occur.

11 TOXICOLOGICAL INFORMATION

Trade Secret (*-**-*) [20-25%]**

Information on toxicological effects

Acute toxicity:
Oral LD50 LD50: > 5,000 mg/kg Method: OECD Test Guideline 423 Remarks: Information given is based on data obtained from similar substances.
Inhalation LC0: 2.8 mg/l Exposure time: 4 h Species: rat Method: OECD Test Guideline 436
Dermal LD50: > 2,000 mg/kg Species: rat Remarks: Information given is based on data obtained from similar substances.

Other information on acute toxicity
Skin corrosion/irritation: Species: rabbit Result: Not irritating Method: OECD Test Guideline 404
Serious eye damage/eye irritation: Species: rabbit Result: Not irritating Method: OECD Test Guideline 405 Exposure time: 72 h
Respiratory or skin sensitisation: no data available
Germ cell mutagenicity: 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.
ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
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.
OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: no data available
Teratogenicity: no data available
Specific target organ toxicity - single exposure (Globally Harmonized System): Inhalation - May cause respiratory irritation.
Specific target organ toxicity - repeated exposure (Globally Harmonized System): no data available
Aspiration hazard: no data available

Potential health effects: Inhalation May be harmful if inhaled. Causes respiratory tract irritation. Ingestion May be harmful if swallowed. Skin May be harmful if absorbed through skin. Causes skin irritation. Eyes Causes eye irritation.

Signs and Symptoms of Exposure: To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Synergistic effects: no data available

Additional Information:

RTECS: Not available

Morpholine (110-91-8) [0.1-0.5%]

Information on toxicological effects

Acute toxicity:
Oral LD50 LD50 Oral - rat - 1,450 mg/kg
Inhalation LC50 LC50 Inhalation - rat - 8 h - 8000 ppm
Dermal LD50 LD50 Dermal - rabbit - 500 mg/kg
Other information on acute toxicity no data available

Skin corrosion/irritation: Skin - rabbit - Severe skin irritation - 24 h
Serious eye damage/eye irritation: Eyes - rabbit - Severe eye irritation
Respiratory or skin sensitisation: no data available
Germ cell mutagenicity: Genotoxicity in vitro - mouse - lymphocyte Morphological transformation.
Genotoxicity in vitro - Hamster - ovary Sister chromatid exchange

Carcinogenicity:
Carcinogenicity - mouse - Oral:
Tumorigenic:Neoplastic by RTECS criteria. Lungs, Thorax, or Respiration:Bronchiogenic carcinoma. Liver:Tumors.
This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Morpholine)
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.
OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: no data available
Teratogenicity: no data available
Specific target organ toxicity - single exposure (Globally Harmonized System): no data available
Specific target organ toxicity - repeated exposure (Globally Harmonized System): no data available
Aspiration hazard: no data available

Potential health effects: Inhalation May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract. Ingestion Harmful if swallowed. Skin Toxic if absorbed through skin. Causes skin burns. Eyes Causes eye burns.

Signs and Symptoms of Exposure: Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., Cough, Shortness of breath, Headache, Nausea

Synergistic effects: no data available

Additional Information:

RTECS: QD6475000

Benzenesulfonic acid, mono-C10-16-alkyl derivs., sodium salts (68081-81-2) [1-5%]

Acute:
Dermal LD50 Rabbit > 2000 mg/kg
Oral LD50 Rat 1080 - 1980 mg/kg
Skin corrosion/irritation: Causes skin irritation.
Serious eye damage/eye irritation: Causes serious eye damage. Dust in the eyes will cause irritation.
Respiratory or skin sensitization
Respiratory sensitization: Not available.
Skin sensitization: This product is not expected to cause skin sensitization.
Germ cell mutagenicity: No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
Carcinogenicity: This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050): Not listed.
Reproductive toxicity: This product is not expected to cause reproductive or developmental effects.
Specific target organ toxicity -single exposure: Not applicable
Specific target organ toxicity -repeated exposure: Not applicable.
Aspiration hazard: Not applicable.

12 ECOLOGICAL INFORMATION

Trade Secret (*-**-*) [20-25%]**

Information on ecological effects

Toxicity to fish :
LC50: > 0.5 mg/l Exposure time: 96 h Species: Oncorhynchus mykiss (rainbow trout)
static test Method: OECD Test Guideline 203
LC50: > 0.1 mg/l Exposure time: 96 h Species: Oncorhynchus mykiss (rainbow trout)
semi-static test Method: OECD Test Guideline 203
Remarks: Information given is based on data obtained from similar substances.
LC50: > 0.055 mg/l Exposure time: 96 h Species: Oncorhynchus mykiss (rainbow trout)
semi-static test
Remarks: Information given is based on data obtained from similarsubstances.

Toxicity to daphnia and other aquatic invertebrates.
EC50: > 100 mg/l Exposure time: 48 h Species: Daphnia magna (Water flea)
static test Method: OECD Test Guideline 202
Remarks: No toxic effects observed at the limit of solubility.
EC50: > 0.2 mg/l Exposure time: 48 h Species: Daphnia magna (Water flea)
static test Method: OECD Test Guideline 202

Toxicity to algae :
ErC50: > 100 mg/l Exposure time: 72 h Species: Pseudokirchneriella subcapitata (green algae)
Method: OECD Test Guideline 201

Toxicity to fish (Chronic toxicity):
NOEC: 0.105 mg/l Exposure time: 28 d Species: Danio rerio (zebra fish)
Remarks: No toxic effects observed at the limit of solubility.

Toxicity to daphnia and other aquatic invertebrates. (Chronic toxicity):
NOEC: > 0.08 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea)
semi-static test Method: OECD Test Guideline 202
Remarks: Information given is based on data obtained from similar substances.

Ecotoxicology Assessment
Acute aquatic toxicity : No toxic effects observed at the limit of solubility.
Chronic aquatic toxicity : No toxic effects observed at the limit of solubility

Biodegradability : Result: Readily biodegradable.
Remarks: Information given is based on data obtained from similar substances.
(OECD 301B) Result: Readily biodegradable. 64 % Testing period: 28 d
Remarks: Information given is based on data obtained from similar substances.

Bioaccumulative potential: Bioaccumulation is unlikely.
Mobility in soil: no data available
PBT and vPvB assessment: This substance is not considered to be persistent, bioaccumulating nor toxic (PBT)., This

substance
is not considered to be very persistent nor very bioaccumulating (vPvB).

Other adverse effects: no data available

Morpholine (110-91-8) [0.1-0.5%]

Information on ecological effects

Toxicity:
Toxicity to fish LC50 - Oncorhynchus mykiss (rainbow trout) - 180 - 380 mg/l - 96 h.
Toxicity to daphnia EC50 - Daphnia magna (Water flea) - 100 mg/l - 24 h.
and other aquatic invertebrates
Toxicity to algae Growth inhibition LOEC - Desmodesmus subspicatus (green algae) - 80 mg/l - 72 h.
EC50 - Desmodesmus subspicatus (green algae) - > 310 mg/l - 72 h

Persistence and degradability: Biodegradability
Bioaccumulative potential: no data available
Mobility in soil: no data available
PBT and vPvB assessment: no data available
Other adverse effects: no data available

Benzenesulfonic acid, mono-C10-16-alkyl derivs., sodium salts (68081-81-2) [1-5%]

Ecotoxicity Toxic to aquatic life. Harmful to aquatic life with long lasting effects.
Algae EC50: Algae 29 mg/l, 72 hours
Crustacea EC50: Daphnia 1.62 - 9.3 mg/l, 48 hours
Fish LC50: Fish 3 mg/l, 96 hours
Persistence and degradability Expected to be readily biodegradable.
Bioaccumulative potential No data available.
Mobility in soil No data available.
Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component

13 DISPOSAL CONSIDERATIONS

Waste Disposal Method
Waste disposal should be in accordance with existing federal, state and local environmental control laws
.
Empty Container Precautions
Do not heat or cut container with electric or gas torch. Recondition or dispose of empty container in accordance with governmental regulations. Do not reuse empty container without proper cleaning. Label precautions also apply to this container when empty.

14 TRANSPORT INFORMATION

Non-hazardous for air, sea and road freight.

15 REGULATORY INFORMATION

Component (CAS#) [%] - CODES

Water (7732-18-5) [70-80%] TSCA

Trade Secret (***-**-*) [20-25%] TSCA

Benzenesulfonic acid, mono-C10-16-alkyl derivs., sodium salts (68081-81-2) [1-5%] TSCA

Morpholine (110-91-8) [0.1-0.5%] TSCA

Regulatory CODE Descriptions

TSCA = Toxic Substances Control Act

16 OTHER INFORMATION

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