



## SAFETY DATA SHEET

## 1. Identification

**Product Name:** Soy Strip  
**Product Code:** B12231  
**SDS Date:** 1/12/2018  
**Use:** Industrial

Chemisphere Corporation  
2101 Clifton Ave  
St. Louis, MO 63139

**General Information: 314-644-1300**  
**CHEMTREC: 800-424-9300**

## 2. Hazard(s) identification

## GHS Classification

Flammable Liquids, (Category 4)  
Eye Irritation, (Category 2A)  
Skin Irritation, (Category 2)  
Reproductive Toxicity, (Category 1)  
Specific Target Organ Toxicity - single exposure, (Category 3)

## Pictogram



**Signalword** Danger

## Hazard Statement

Combustible liquid.  
Causes serious eye irritation.  
Causes skin irritation.  
May damage fertility or the unborn child.  
May cause respiratory irritation.

## Precautionary

Avoid breathing mist/vapors/spray. Do not handle until all safety precautions have been read and understood. Keep away from flames and hot surfaces-no smoking. Obtain special instructions before use. Use only outdoors or in a well-ventilated area. Wash thoroughly after handling. Wear protective gloves/ protective clothing/ eye protection/ face protection. Call a poison center/ doctor if you feel unwell. If exposed or concerned: Get medical advice/ attention. If eye irritation persists: Get medical advice/ attention. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If inhaled: Remove person to fresh air and keep comfortable for breathing. If on skin: Wash with plenty of water. If skin irritation occurs: Get medical advice/ attention. In case of fire: Use dry sand, dry chemical, or alcohol resistant foam to extinguish. Take off contaminated clothing and wash it before reuse. Store in a well ventilated place. Keep cool. Keep container tightly closed. Store locked up. Dispose of contents/ container in accordance with local/ regional/ national/ international



regulations.

**Hazards not otherwise classified:** Not available

### 3. Composition/information on ingredients

Name	CAS	Concentration
N-Methyl-2-Pyrrolidone	872-50-4	20-50
Methyl ester, soybean oil	67784-80-9	1-20
Dimethyl Succinate	106-65-0	1-10
Dimethyl Adipate	627-93-0	1-10
Dimethyl Glutarate	1119-40-0	10-30
Nonylphenol Ethoxylate	9016-45-9	1-5

### 4. First-aid measures

**General Advice** Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

**If Inhaled** If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**In Case of Skin Contact** Wash off with soap and plenty of water. Consult a physician

**In Case of Eye Contact** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**If Swallowed** Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician

#### Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling.

#### Indications of any immediate medical attention and special treatment needed

No data available

### 5. Fire-fighting measures

**Extinguishing Media** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Special Hazards** No data available

**Advice for firefighters** Wear self-contained breathing apparatus for firefighting if necessary.

**Further Information** Use water spray to cool unopened containers.

### 6. Accidental release measures

#### Personal precautions, protective equipment, and emergency procedures

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.



**Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

**Methods and materials for containment and cleaning up**

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal.

**7. Handling and storage**

**Safe Handling**

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge. For precautions see section 2.2.

**Safe Storage**

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. Store under inert gas. Moisture sensitive.

**8. Exposure controls/personal protection**

Name	CAS		
N-Methyl-2-Pyrrolidone	872-50-4		
OSHA TWA	OSHA STEL	ACGIH TWA	ACGIH STEL
No data available	No data available	No data available	No data available
Methyl ester, soybean oil	67784-80-9		
OSHA TWA	OSHA STEL	ACGIH TWA	ACGIH STEL
No data available	No data available	No data available	No data available
Dimethyl Succinate	106-65-0		
OSHA TWA	OSHA STEL	ACGIH TWA	ACGIH STEL
Not Available	Not Available	Not Available	Not Available
Dimethyl Adipate	627-93-0		
OSHA TWA	OSHA STEL	ACGIH TWA	ACGIH STEL
Not Available	Not Available	Not Available	Not Available
Dimethyl Glutarate	1119-40-0		
OSHA TWA	OSHA STEL	ACGIH TWA	ACGIH STEL
Not Available	Not Available	Not Available	Not Available
Nonylphenol Ethoxylate	9016-45-9		
OSHA TWA	OSHA STEL	ACGIH TWA	ACGIH STEL
No data available	No data available	No data available	No data available

**Engineering Control**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.



<b>Eye/Face Protection</b>	Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU)
<b>Skin Protection</b>	Handle with butyl rubber gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's 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.
<b>Body Protection</b>	Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
<b>Respiratory Protection</b>	Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose 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).

**Control of Environmental Exposure**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

**9. Physical and chemical properties**

<b>Appearance</b>	N-Methyl-2-Pyrrolidone	Liquid
<b>Odor</b>	N-Methyl-2-Pyrrolidone	No data available
<b>Odor Threshold</b>	N-Methyl-2-Pyrrolidone	No data available
<b>pH</b>	N-Methyl-2-Pyrrolidone	7.7-8
<b>Melting/Freezing Point</b>	N-Methyl-2-Pyrrolidone	-24C (-11F)
<b>Initial Boiling Point/Range</b>	N-Methyl-2-Pyrrolidone	202C (396F)
<b>Flash Point</b>	N-Methyl-2-Pyrrolidone	91C (196F)
<b>Evaporation Rate</b>	N-Methyl-2-Pyrrolidone	No data available
<b>Flammability</b>	N-Methyl-2-Pyrrolidone	No data available
<b>Upper Explosion Limit</b>	N-Methyl-2-Pyrrolidone	9.5%
<b>Lower Explosion Limit</b>	N-Methyl-2-Pyrrolidone	1.3%
<b>Vapor Pressure</b>	N-Methyl-2-Pyrrolidone	0.39 - 0.43 hPa (0.29 - 0.32 mmHg) at 20 °C (68 °F) 1.32 hPa (0.99 mmHg) at 40 °C (104 °F)
<b>Vapor Density</b>	N-Methyl-2-Pyrrolidone	3.42
<b>Relative Density</b>	N-Methyl-2-Pyrrolidone	1.028 g/mL at 25 °C (77 °F)
<b>Water Solubility</b>	N-Methyl-2-Pyrrolidone	No data available
<b>Partition Coefficient</b>	N-Methyl-2-Pyrrolidone	-0.46
<b>Auto Ignition Temperature</b>	N-Methyl-2-Pyrrolidone	No data available



**Decomposition Temperature** N-Methyl-2-Pyrrolidone No data available

**Viscosity** N-Methyl-2-Pyrrolidone No data available

## 10. Stability and reactivity

**Reactivity** No data available

**Chemical Stability** Stable under recommended storage conditions.

**Possibility of Hazardous Reactions** No data available

**Conditions to Avoid** Heat, flames and sparks.

**Incompatible materials** Strong acids, Strong oxidizing agents, Strong reducing agents

**Hazardous Decomposition Products** Carbon oxides, Nitrogen oxides (Nox)

## 11. Toxicological information

Name	CAS
N-Methyl-2-Pyrrolidone	872-50-4
LD50 Oral - Rat - 3,914 mg/kg	
LDLO Inhalation - Rat - 4 h - > 5100 ppm	
LD50 Dermal - Rabbit - 8,000 mg/kg	
<b>Skin corrosion/irritation</b> No data available	
<b>Serious eye damage/eye irritation</b> Result: Eye irritation	
<b>Respiratory or skin sensitization</b> No data available	
<b>Germ cell mutagenicity</b> No data available	
<b>Carcinogenicity</b> Not identified as probable, possible or confirmed human carcinogen by IARC, NTP, ACGIH, or OSHA	
<b>Reproductive</b> Damage to fetus possible	
<b>Additional information</b> Inhalation - May cause respiratory irritation.	



Name	CAS
Methyl ester, soybean oil	67784-80-9
No data available	
No data available	
No data available	
<b>Skin corrosion/irritation</b>	May be irritating
<b>Serious eye damage/eye irritation</b>	May be irritating
<b>Respiratory or skin sensitization</b>	No data available
<b>Germ cell mutagenicity</b>	No data available
<b>Carcinogenicity</b>	
<b>Reproductive</b>	No data available
<b>Additional information</b>	No data available

Name	CAS
Dimethyl Succinate	106-65-0
LD50 Oral - Rat - female - 6,892 mg/kg	
LD50 Inhalation - Rat - male and female - > 2,000 mg/l	
LD50 Dermal - Rabbit - > 5,000 mg/kg	
<b>Skin corrosion/irritation</b>	Result: No skin irritation
<b>Serious eye damage/eye irritation</b>	Result: Mild eye irritation
<b>Respiratory or skin sensitization</b>	Result: Did not cause sensitisation on laboratory animals.
<b>Germ cell mutagenicity</b>	Result: negative
<b>Carcinogenicity</b>	Not identified as probable, possible or confirmed human carcinogen by IARC, ACGIH, NTP, or OSHA
<b>Reproductive</b>	No data available
<b>Additional information</b>	No data available



<b>Name</b>	<b>CAS</b>
Dimethyl Adipate	627-93-0
LD50 Oral - Rat - male and female - > 5,000 mg/kg	
Inhalation: No data available	
LD50 Dermal - Rabbit - male and female - > 1,000 mg/kg	
<b>Skin corrosion/irritation</b> Result: No skin irritation - 4 h	
<b>Serious eye damage/eye irritation</b> Result: No eye irritation	
<b>Respiratory or skin sensitization</b> No data available	
<b>Germ cell mutagenicity</b> Result: negative	
<b>Carcinogenicity</b> Not identified as probable, possible or confirmed human carcinogen by IARC, ACGIH, NTP, or OSHA	
<b>Reproductive</b> Rat: Effects on Fertility: Post-implantation mortality, Specific Developmental Abnormalities: Musculoskeletal system.	
<b>Additional information</b> No data available	

<b>Name</b>	<b>CAS</b>
Dimethyl Glutarate	1119-40-0
Oral: no data available	
Inhalation: no data available	
Dermal: no data available	
<b>Skin corrosion/irritation</b> no data available	
<b>Serious eye damage/eye irritation</b> no data available	
<b>Respiratory or skin sensitization</b> no data available	
<b>Germ cell mutagenicity</b> no data available	
<b>Carcinogenicity</b> Not identified as probable, possible or confirmed human carcinogen by IARC, NTP, or OSHA	
<b>Reproductive</b> no data available	
<b>Additional information</b> no data available	



Name	CAS
Nonylphenol Ethoxylate	9016-45-9
Toxicity Oral Rat: Oral LD50 Rat > 2000 mg/kg	
Toxicity Inhalation: No Data Available	
Toxicity Dermal: No Data Available	
<b>Skin corrosion/irritation</b> Skin Contact: Causes irritation	
<b>Serious eye damage/eye irritation</b> Eye Contact: Causes irritation	
<b>Respiratory or skin sensitization</b> No information available.	
<b>Germ cell mutagenicity</b> No information available.	
<b>Carcinogenicity</b> This chemical is not considered to be carcinogenic by NTP, IARC, or OSHA.	
<b>Reproductive</b> No information available.	
<b>Additional information</b> Inhalation: May cause respiratory tract irritation Ingestion: May cause irritation of the esophagus and gastrointestinal tract	

## 12. Ecological information

Name	CAS	Toxicity
N-Methyl-2-Pyrrolidone	872-50-4	LC50 - other fish - 4,000 mg/l - 96 h LC50 - Leuciscus idus (Golden orfe) - > 500 mg/l - 96 h EC50 - Daphnia magna (Water flea) - > 1,000 mg/l - 24 h Toxicity to bacteria LC50 - Bacteria - > 9,000 mg/l
Methyl ester, soybean oil	67784-80-9	No data available
Dimethyl Succinate	106-65-0	semi-static test LC50 - Danio rerio (zebra fish) - 50 - 100 mg/l - 96 h static test EC50 - Daphnia magna (Water flea) - > 100 mg/l - 48 h Toxicity to algae static test EC50 - Pseudokirchneriella subcapitata - > 100 mg/l - 72 h Toxicity to bacteria Growth inhibition EC50 - Sludge Treatment - > 1,000 mg/l - 3 h
Dimethyl Adipate	627-93-0	static test EC50 - Daphnia magna (Water flea) - 72 mg/l - 48 h Toxicity to algae static test - Pseudokirchneriella subcapitata - > 100 mg/l - 72 h





Dimethyl Glutarate	1119-40-0	no data available
Nonylphenol Ethoxylate	9016-45-9	Zebrafish (Brachydanio rerio) LC50 1 – 10 mg/l 96 hours Daphnia magna EC50 1 – 10 mg/l 48 hours Desmodesmus subspicatus EC50 1 – 10 mg/l 72 hours

### 13. Disposal considerations

Dispose of contents/container in accordance with local/regional/national/international regulations.

### 14. Transport information

<b>Proper Shipping Name</b>	Not DOT Regulated
<b>Hazard Class</b>	Not DOT Regulated
<b>Identification Number</b>	Not DOT Regulated
<b>Packing Group</b>	Not DOT Regulated
<b>Label</b>	Not DOT Regulated

### 15. Regulatory information

Name	CAS
N-Methyl-2-Pyrrolidone	872-50-4
<b>SARA 302/304</b>	No components were identified
<b>SARA 313</b>	313
<b>CERCLA</b>	No components were identified
<b>SARA 311/312</b>	Fire Hazard, Acute Health Hazard, Chronic Health Hazard
<b>PROP 65</b>	Developmental hazard
This product and/or its components are listed on the Toxic Substances Control Act (TSCA) inventory.	



Name	CAS
Methyl ester, soybean oil	67784-80-9
<b>SARA 302/304</b>	No components were identified
<b>SARA 313</b>	No components were identified
<b>CERCLA</b>	No components were identified
<b>SARA 311/312</b>	Acute health hazard
<b>PROP 65</b>	No components were identified
This product and/or its components are listed on the Toxic Substances Control Act (TSCA) inventory.	
Name	CAS
Dimethyl Succinate	106-65-0
<b>SARA 302/304</b>	No components were identified
<b>SARA 313</b>	No components were identified
<b>CERCLA</b>	No components were identified
<b>SARA 311/312</b>	Fire Hazard
<b>PROP 65</b>	No components were identified
This product and/or its components are listed on the Toxic Substances Control Act (TSCA) inventory.	
Name	CAS
Dimethyl Adipate	627-93-0
<b>SARA 302/304</b>	No components were identified
<b>SARA 313</b>	No components were identified
<b>CERCLA</b>	No components were identified
<b>SARA 311/312</b>	Chronic Health Hazard
<b>PROP 65</b>	No components were identified
This product and/or its components are listed on the Toxic Substances Control Act (TSCA) inventory.	



Name	CAS
Dimethyl Glutarate	1119-40-0
<b>SARA 302/304</b>	No components were identified
<b>SARA 313</b>	No components were identified
<b>CERCLA</b>	No components were identified
<b>SARA 311/312</b>	Fire Hazard
<b>PROP 65</b>	No components were identified
This product and/or its components are listed on the Toxic Substances Control Act (TSCA) inventory.	

  

Name	CAS
Nonylphenol Ethoxylate	9016-45-9
<b>SARA 302/304</b>	No components were identified
<b>SARA 313</b>	No components were identified
<b>CERCLA</b>	No components were identified
<b>SARA 311/312</b>	Immediate Hazard
<b>PROP 65</b>	No components were identified
This product and/or its components are listed on the Toxic Substances Control Act (TSCA) inventory.	

**16. Other information, including date of preparation or last revision**

SDS Date: 1/12/2018

## Disclaimer:

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