SAFETY DATA SHEET

1. Identification

Product Name: Enviro-Strip

Product Code: B13210

SDS Date: 10/21/2016

Use: Industrial

Chemisphere Corporation
2101 Clifton Ave
St. Louis, MO 63139

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

2. Hazard(s) identification

GHSClassification

Flammable liquids (Category 3)
Acute toxicity, Oral (Category 3)
Acute toxicity, Inhalation (Category 3)
Acute toxicity, Dermal (Category 3)
Skin corrosion (Category 1A)
Serious eye damage (Category 1)
Reproductive toxicity (Category 1B)
Specific target organ toxicity - single exposure (Category 3), Respiratory system
Specific target organ toxicity - single exposure (Category 1)

Pictogram

Signalword Danger

HazardStatement

Flammable liquid and vapor
Toxic if swallowed.
Toxic if inhaled.
Toxic in contact with skin
Causes serious eye damage.
Causes severe skin burns and eye damage.
May damage fertility or the unborn child.
May cause respiratory irritation
Causes damage to organs.

Precautionary

Do not breathe mist/vapors/spray. Do not eat, drink or smoke when using this product. Do not handle until all safety precautions have been read and understood. Ground/bond container and receiving equipment. Keep away from

heat/sparks/open flames/hot surfaces-no smoking. Keep container tightly closed. Obtain special instructions before use. Take precautionary measure against static discharge. Use only non-sparking tools. Use only outdoors or in a well ventilated area. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Response: Call a poison center/doctor if you feel unwell. If exposed or concerned: 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. Immediately call a poison center/doctor. If inhaled: Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center/doctor. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with plenty of water shower. Immediately call a poison center/doctor. If swallowed: Immediately call a poison center/doctor. If swallowed: Rinse mouth. Do NOT induce vomiting. In case of fire: Use water spray, alcohol resistant foam, dry chemical or carbon dioxide to extinguish. Take off immediately all contaminated clothing and wash it before reuse. Storage: 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	30-70
Monoethanolamine	141-43-5	10-30
Potassium Hydroxide	1310-58-3	1-20
Methanol	67-56-1	10-30

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. Take victim immediately to hospital. Consult a physician.
In Case of Eye Contact	Flush eyes with water as a precaution.
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 (see section 2.2) and/or in section 11

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	Carbon oxides

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

Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors 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).

7. Handling and storage

Safe Handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use explosion-proof equipment. Keep away from sources of ignition - No smoking.Take measures to prevent the build up of electrostatic charge.
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.

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
Monoethanolamine			141-43-5
OSHA TWA	OSHA STEL	ACGIH TWA	ACGIH STEL
3 ppm	6 ppm	3 ppm	6 ppm
Potassium Hydroxide			1310-58-3
OSHA TWA	OSHA STEL	ACGIH TWA	ACGIH STEL
Not Available	Not Available	2 mg/m3	Not Available
Methanol			67-56-1
OSHA TWA	OSHA STEL	ACGIH TWA	ACGIH STEL
200 ppm	Not Available	200 ppm	250 ppm

Engineering Control	Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Eye/Face Protection	Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
Skin Protection	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.
Body Protection	Complete suit protecting against chemicals, Flame retardant antistatic protective clothing., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Respiratory Protection	Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type AXBEK (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

Appearance	Methanol	Liquid
Odor	Methanol	Pungent
Odor Threshold	Methanol	No data available
pH	Methanol	No data available
Melting/Freezing Point	Methanol	Melting point/range: -98 °C (-144 °F)
Initial Boiling Point/Range	Methanol	64.7 °C (148.5 °F)
Flash Point	Methanol	95 °F - closed cup
Evaporation Rate	Methanol	No data available
Flammability	Methanol	No data available
Upper Explosion Limit	Methanol	36%
Lower Explosion Limit	Methanol	6%
Vapor Pressure	Methanol	130.3 hPa (97.7 mmHg) at 20.0 °C (68.0 °F), 546.6 hPa (410.0 mmHg) at 50.0 °C (122.0 °F), 169.27 hPa (126.96 mmHg) at 25.0 °C (77.0 °F)
Vapor Density	Methanol	1.11
Relative Density	Methanol	0.791 g/mL at 25 °C (77 °F)
Water Solubility	Methanol	completely miscible
Partition Coefficient	Methanol	log Pow: -0.77

Auto Ignition Temperature	Methanol	455.0 °C (851.0 °F) at 1,013 hPa (760 mmHg)
Decomposition Temperature	Methanol	No data available
Viscosity	Methanol	No data available

10. Stability and reactivity

Reactivity No data available

Chemical Stability Stable under recommended storage conditions.

Possibility of Hazardous Reactions Vapors may form explosive mixture with air.

Conditions to Avoid Heat, flames and sparks.

Incompatible materials Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids

Hazardous Decomposition Products No data available

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

Skin corrosion/irritation No data available

Serious eye damage/eye irritation Result: Eye irritation

Respiratory or skin sensitization No data available

Germ cell mutagenicity No data available

Carcinogenicity Not identified as probable, possible or confirmed human carcinogen by IARC, NTP, ACGIH, or OSHA

Reproductive Damage to fetus possible

Additional information Inhalation - May cause respiratory irritation.

Name	CAS
Monoethanolamine	141-43-5

LD50 Oral - Rat - 1,720 mg/kg

No data available

LD50 Dermal - Rabbit - 1,015 mg/kg

Skin corrosion/irritation No data available

Serious eye damage/eye irritation Result: Severe eye irritation

Respiratory or skin sensitization No data available

Germ cell mutagenicity No data available

Carcinogenicity Not identified as probable, possible or confirmed human carcinogen by IARC, NTP, or OSHA

Reproductive No data available

Additional information Liver - Irregularities - Based on Human Evidence

Name	CAS
Potassium Hydroxide	1310-58-3

Oral: No data available

Inhalation: No data available

Dermal: No data available

Skin corrosion/irritation No data available

Serious eye damage/eye irritation No data available

Respiratory or skin sensitization No data available

Germ cell mutagenicity No data available

Carcinogenicity Not identified as probable, possible or confirmed human carcinogen by IARC, NTP, or OSHA

Reproductive No data available

Additional information Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi, pneumonitis, pulmonary edema, burning sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, Nausea

Name	CAS
Methanol	67-56-1

LDLO Oral - Human - 143 mg/kg, LD50 Oral - Rat - 1,187 - 2,769 mg/kg

LC50 Inhalation - Rat - 4 h - 128.2 mg/l, LC50 Inhalation - Rat - 6 h - 87.6 mg/l

LD50 Dermal - Rabbit - 17,100 mg/kg

Skin corrosion/irritation Result: No skin irritation

Serious eye damage/eye irritation Result: No eye irritation

Respiratory or skin sensitization Does not cause skin sensitisation.

Germ cell mutagenicity Result: negative

Carcinogenicity Not identified as probable, possible or confirmed human carcinogen by IARC, NTP, or OSHA

Reproductive No data available

Additional information Methyl alcohol may be fatal or cause blindness if swallowed.
Effects due to ingestion may include:, Headache, Dizziness, Drowsiness, metabolic acidosis, Coma, Seizures.
Symptoms may be delayed., Damage of the:, Liver, Kidney

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
Monoethanolamine	141-43-5	EC50 - Desmodesmus subspicatus (green algae) - 15 mg/l - 72 h EC50 - Daphnia magna (Water flea) - 65 mg/l - 48 h LC50 - Pimephales promelas (fathead minnow) - 227 mg/l - 96 h
Potassium Hydroxide	1310-58-3	No data available

Methanol	67-56-1	mortality LC50 - Lepomis macrochirus (Bluegill) - 15,400.0 mg/l - 96 h, NOEC - Oryzias latipes - 7,900 mg/l - 200 h, EC50 - Daphnia magna (Water flea) - > 10,000.00 mg/l - 48 h, Growth inhibition EC50 - Scenedesmus capricornutum (fresh water algae) -22,000.0 mg/l -96 h

Product is 94% Readily Biodegradable, 1% Biodegradeable, and remaining 5% inorganic

13. Disposal considerations

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

14. Transport information

Proper Shipping Name	Flammable Liquids, Corrosive, n.o.s. (Methanol, Potassium Hydroxide)
Hazard Class	3, (8)
Identification Number	UN2924
Packing Group	III
Label	Flammable, Corrosive

15. Regulatory information

Name	**CAS**
N-Methyl-2-Pyrrolidone	872-50-4

SARA 302/304	No components were identified
SARA 313	313
CERCLA	No components were identified
SARA 311/312	Fire Hazard, Acute Health Hazard, Chronic Health Hazard
PROP 65	Developmental hazard

This product and/or its components are listed on the Toxic Substances Control Act (TSCA) inventory.

Name	CAS
Monoethanolamine	141-43-5

SARA 302/304	No components were identified
SARA 313	No components were identified
CERCLA	No components were identified
SARA 311/312	Fire Hazard, Acute Health Hazard, Chronic Health Hazard
PROP 65	No components were identified

This product and/or its components are listed on the Toxic Substances Control Act (TSCA) inventory.

Name	CAS
Potassium Hydroxide	1310-58-3

SARA 302/304	No components were identified
SARA 313	No components were identified
CERCLA	RQ=1,000 lbs
SARA 311/312	Acute Health Hazard, Chronic Health Hazard
PROP 65	No components were identified

This product and/or its components are listed on the Toxic Substances Control Act (TSCA) inventory.

Name	CAS
Methanol	67-56-1

SARA 302/304	No components were identified
SARA 313	313
CERCLA	RQ=5,000 lbs
SARA 311/312	Fire Hazard, Acute Health Hazard, Chronic Health Hazard
PROP 65	Developmental hazard

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: 10/21/2016

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