SAFETY DATA SHEET

DERMA SEAL

SDS Revision Date: **04/26/2015**

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product Identifiers

Product Identity	Derma Seal
Alternate Names	Sundry Chemical

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

Identified Uses	Sundry
Application Method	See Technical Data Sheet

1.3 Details of the supplier of the safety data sheet

Company Name	Hydrol Chemical Company, Inc. 520 Commerce Drive Yeadon, PA 19050

1.4 Emergency telephone number

CHEMTREC (USA)	(800) 424-9300
Customer Service **Hydrol Chemical Company, Inc.**	(800) 345-8200 (610) 622-3603

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

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

Flammable liquids 1; H224	Extremely flammable liquid and vapor.
Acute toxicity 3; H301	Toxic if swallowed.
STOT – single exposure 1; H370	Causes damage to organs.

2.2 GHS Label elements, including precautionary statements

Pictogram:

Signal word: **Danger**

Hazard statements:

H224 Extremely flammable liquid and vapor.
H301 Toxic if swallowed.
H370 Causes damage to organs.

Precautionary statements:

P210 Keep away from heat / sparks / open flames / hot surfaces – No smoking.
P241 Use explosion-proof electrical / ventilating / light / equipment.
P260 Do not breathe dust / fume / gas / mist / vapors / spray.
P264 Wash thoroughly after handling.
P270 Do not eat, drink, or smoke when using this product.
P273 Avoid release to the environment.
P280 Wear protective gloves / eye protection / face protection.

Response statements:

P301+310 IF SWALLOWED: Immediately call a POISON CENTER or doctor / physician.
P303+361+353 IF ON SKIN: Remove / Take all contaminated clothing off immediately. Rinse skin with water / shower.
P307+311 IF exposed, call a POISON CENTER or doctor / physician.
P321 Specific treatment (see information on this label).
P333+313 IF skin irritation or a rash occurs: Get medical advice or attention.
P330 Rinse mouth.
P370+378 In case of fire: Use alcohol resistant foam, CO2, powder, water spray for extinction. Do not use water jet.

Storage statements:

P403+233 Store in a well ventilated space. Keep container tightly closed.
P405 Store locked up.

Disposal statements:

P501 Dispose of contents / container in accordance with local / national regulations.

3. COMPOSITION / INFORMATION ON INGREDIENTS

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances Regulations.

Ingredient / Chemical Designations	Weight %	GHS Classification	Notes
Methanol **CAS Number: 0000067-56-1**	**25 – 40**	**Flammable Liquid 2; H225** **Acute Toxicity 3; H331** **Acute Toxicity 3; H311** **Acute Toxicity 3; H301** **STOT SE 1; H370**	**(1)(2)**
Ethyl Ether **CAS Number: 0000060-29-7**	**50 – 65**	**Flammable Liquid 1; H224** **Acute Toxicity 4; H302** **STOT SE 3**	**(1)(2)**
Nitrocellulose **CAS Number: 0009004-70-0**	**5 – 15**	**Explosive 1.1; H201**	**(1)**

(1) Substance classified with a health or environmental hazard.
(2) Substance with a workplace exposure limit.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General: Move victim to fresh air.
Call 911 or emergency medical service.
Give artificial respiration if victim is not breathing.

Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.
Administer oxygen if breathing is difficult.
Remove and isolate contaminated clothing and shoes.
In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes.
In case of burns, immediately cool affected skin for as long as possible with cold water. Do not remove clothing if adhering to skin.
Keep victim warm and quiet.
Effects of exposure (inhalation, ingestion, or skin contact) to substance may be delayed.
Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

Inhalation: Move victim to fresh air. Call emergency medical care. Apply artificial respiration if victim is not breathing. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Administer oxygen if breathing is difficult.

Eyes: Irrigate copiously with clean, fresh water for at least 15 minutes, holding eyelids apart, and seek medical attention.

Skin: Remove and isolate contaminated clothing and shoes. In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes. Keep victim warm and quiet.

Ingestion: **If substance is swallowed, Call Physician Or Poison Control Center For Most Current Information. Ingestion is life threatening.**
Never induce vomiting or give diluents (milk or water) to someone who is unconscious, having convulsions, or who cannot swallow.
Victims of chemical exposure must be taken for medical attention. Rescuers should be taken for medical attention, if necessary. Take copy of label and SDS with victim to a health professional.

4.2 Most important symptoms and effects, both acute and delayed

Overview Acute: Severe irritation of the tissue that had contact with the substance (skin, eyes, mucous membranes). Drowsiness, fatigue, confusion may be experienced after inhalation or ingestion of the substance.

Chronic: Methanol is eliminated slowly from the body; Therefore, repeated exposures may build up to toxic levels in body tissues. Animal studies show long term exposures to methanol damages the CNS, kidneys or liver, skin disorders, and birth defects.

Symptoms of overexposure by route of exposure: Methanol may be harmful if swallowed, inhaled, or injected into skin. Methanol may cause skin and eye irritation or damage. Methanol can be very irritating to mucous membranes and the respiratory tract.

Inhalation: Inhalation of Methanol vapors may lead to irritation of the nose and throat. Symptoms of overexposure mat include dizziness, coughing, headache, dyspnea, lachrymation, nausea, and vomiting. Exposure to high concentrations of this material vapor may cause unconsciousness or death.

Primary routes of entry: Inhalation, skin contact, eyes, ingestion.

Target organs: CNS, eyes, circulatory and respiratory systems.

Contact with skin or eyes: Methanol is an eye and skin irritant. Splashes in the eye may cause eye irritation, redness, tearing, and temporary corneal damage or blindness.

Skin absorption: Methanol is absorbed through the skin and may result in effects similar to inhalation exposure.

Ingestion: Ingestion of one to four ounces of Methanol can cause irreversible damage to the nervous system, blindness, or death. It cannot be made non-poisonous. Aspiration of the material into the lungs can cause chemical pneumonitis.

Injection: Injection of Methanol can lead to redness and irritation of the surrounding tissue. Exposure to solvent vapor concentrations from the component solvents in excess of the stated occupational exposure limits may result in adverse health effects such as mucous membranes and respiratory system irritation and adverse affects on the kidneys, liver, and CNS. Symptoms include headache, nausea, dizziness, fatigue, muscular weakness, drowsiness, and in extreme cases, loss of consciousness.

Repeated or prolonged contact with the substance may cause removal of natural fat from the skin resulting in dryness, irritation, and possible non-allergic contact dermatitis. Solvents may also be absorbed through the skin. Splashes of the liquid in the eyes may cause irritation and soreness with possible reversible damage. See Section 2 for further details.

Inhalation: Causes damage to organs.

Ingestion: Toxic if swallowed.

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Dry chemical, foam, carbon dioxide, and water fog.

5.2 Special hazards arising from the substance or mixture

Carbon monoxide and carbon dioxide.
Keep away from heat / sparks / open flames / hot surfaces – No smoking.
Use explosion-proof electrical / ventilation / lighting / equipment.
Do not breathe mist / vapors / spray.

5.3 Advice for fire-fighters

Wear positive pressure self-contained breathing apparatus (SCBA).
Wear chemical protective clothing that is specifically recommended by the manufacturer. It may provide little or no thermal protection in fire situations ONLY; It is not effective in spill situations where direct contact with the substance is possible.
Highly flammable: Will be easily ignited by heat, sparks, or flames.
Vapors may form explosive mixtures with air.
Vapors may travel to source of ignition and flash back.
Most vapors are heavier than air. They will spread along the ground and collect in low, or confined areas (sewers, basements, tanks, etc.)
Vapor explosion hazard indoors, outdoors, or in sewers.
Runoff to sewer may create fire or explosion hazard.
Containers may explode when heated.
Many liquids are lighter than water.
TOXIC; may be fatal if inhaled, ingested, or absorbed through the skin.
Contact with substance may cause irritation or burns to skin and eyes.
Fire will produce irritating, corrosive, and/or toxic gases.
Vapors may cause dizziness or suffocation.
Runoff from fire control or dilution water may cause pollution.

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6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment, and emergency procedures

Large Spill: Water spray may reduce vapor, but may not prevent ignition in closed spaces.

6.2 Environmental precautions

Do not allow spills to enter drains or watercourses.
Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or use of the toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

6.3 Methods and material for containment and cleanup

Vapor is heavier than air and may flow along surface to distant ignition source and flash back.
CALL Emergency Response Telephone Number on Shipping Paper first. If Shipping Paper is not available or no answer to call, refer to appropriate telephone number listed on the inside back cover of ERG.
As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions.
Keep unauthorized personnel away.
Stay upwind.
Keep out of low areas.
Ventilate closed spaces before entering.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

See Section 2 for further details.

7.2 Conditions for safe storage, including any incompatibilities

Handle containers carefully to prevent damage and spillage.
Incompatible materials: Avoid contact with strong oxidizers / alkalis.
See Section 2 for further details.

7.3 Specific end use(s)

No data available.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

8.1 Control parameters

Exposure

Ingredient / Chemical Designations	Source	Value
Methanol	OSHA	TWA 200 ppm (260 mg/m^3)
CAS Number: 0000067-56-1	ACGIH	TWA 200 ppm, STEL 250 ppm Skin
	NIOSH	TWA 200 ppm (260 mg/m^3), STEL 250 ppm (325 mg/m^3) Skin
	Supplier	No established limit
Ethyl Ether	OSHA	TWA 400 ppm (1200 mg/m^3), STEL 500 ppm (1500 mg/m3)
CAS Number: 0000060-29-7	ACGIH	No data available
	NIOSH	No data available
	Supplier	No established limit
Nitrocellulose	OSHA	No established limit
CAS Number: 0009004-70-0	ACGIH	No established limit
	NIOSH	No established limit
	Supplier	No established limit

Carcinogen Data

Ingredient / Chemical Designations	Source	Value
Methanol	OSHA	Select Carcinogen: No
CAS Number: 0000067-56-1	NTP	Known: No; Suspected: No
	IARC	Group 1, 2a, 2b, 3, 4: No
Ethyl Ether	OSHA	Select Carcinogen: No
CAS Number: 0000060-29-7	NTP	Known: No; Suspected: No
	IARC	Group 1, 2a, 2b, 3, 4: No
Nitrocellulose	OSHA	Select Carcinogen: No
CAS Number: 0009004-70-0	NTP	Known: No; Suspected: No
	IARC	Group 1, 2a, 2b, 3, 4: No

8.2 Exposure controls

Respiratory	Not necessary where area is properly ventilated.
Eyes	Wear safety eyewear; safety glasses, goggles, or visors to protect against splashing liquid.
Skin	Wear overalls which cover the body, arms, and legs. Skin should not be exposed. All parts of the body should be washed after contact. Wear PVC, vinyl, nitrile, or latex gloves.
Engineering Controls	Provide adequate ventilation. If the use of local exhaust ventilation is insufficient to maintain vapor levels below occupational exposure limits, suitable respiratory protection must be worn.
Other Work Practices	Use good personal hygiene. Wash hands before eating, drinking, smoking, or toileting. Promptly remove soiled clothing; wash thoroughly before reuse.

See Section 2 Precautionary Statements for further details.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear, light pink colored liquid
Odor	Odorless
Odor threshold	No data available
pH	No data available
Melting pt. / freezing pt.	No data available
Initial boiling pt. and boiling range	42-44C (108-111°F)
Flash point (TCC)	-10-8C (14-18°F)
Evaporation rate (Bu Acetate = 1)	Less than 1
Flammability (solid, gas)	Not applicable
Upper/Lower flammability or explosion limits	Lower explosive limit: 2% Upper explosive limit: 37%
Vapor pressure (Pa)	No data available
Vapor density	Greater than 1
Specific gravity	0.800-0.810
Solubility in water	86%
Partition coefficient n-octanol/water (log Pow)	No data available
Auto-ignition temperature (C)	No data available
Decomposition temperature (C)	No data available
Viscosity (cps)	No data available

9.2 Other information

No other relevant information.

10. STABILITY AND REACTIVITY

10.1 Reactivity

Hazardous polymerization will not occur.

10.2 Chemical stability

Stable under recommended storage/handling conditions. May form formic acid and methanol at elevated temperatures.

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid

Avoid heat and open flame.

10.5 Incompatible materials

Avoid contact with strong oxidizers, strong alkalis.

10.6 Hazardous decomposition products

Carbon monoxide and carbon dioxide.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Exposure to solvent vapor concentrations from the component solvents greater than the occupational exposure limits may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on kidneys, liver, and CNS. Symptoms include headache, nausea, dizziness, fatigue, muscular weakness, drowsiness, and in extreme cases, loss of consciousness.

Repeated or prolonged contact with the substance may cause removal of natural fat from the skin resulting in dryness, irritation, and possible non-allergic dermatitis. Solvents may also be absorbed through the skin. Splashes of liquid in the eyes may cause irritation and soreness with possible reversible damage.

Ingredient / Chemical Designations	Oral LD50 (mg/kg)	Skin LD50 (mg/kg)	Inhalation Vapor LD50 (mg/L/4hr)	Inhalation Dust/Mist LD50 (mg/L/4hr)	Inhalation Gas LD50 (ppm)
Methanol CAS Number: 0000067-56-1	143.00, Human - Category: 3	15,800.00, Rabbit - Category: N/A	128.00, Rat - Category: N/A	No data available	64,000.00, Rat - Category: N/A
Ethyl Ether CAS Number: 0000060-29-7	1215.00, Rat - Category: 3	14,200.00, Rabbit - Category: N/A	No data available Category: N/A	No data available	31,000.00, Mouse - Category: N/A
Nitrocellulose CAS Number: 0009004-70-0	No data available	No data available	No data available	No data available	No data available

Item	Category	Hazard
Acute Toxicity (mouth)	3	Toxic if swallowed
Acute Toxicity (skin)	-	N/A
Acute Toxicity (inhalation)	-	N/A
Skin Corrosion / Irritation	-	N/A
Eye Damage / Irritation	-	N/A
Sensitization (respiratory)	-	N/A
Sensitization (skin)	-	N/A
Germ Toxicity	-	N/A
Carcinogenicity	-	N/A
Reproductive Toxicity	-	N/A
Specific Target Organ Systemic Toxicity (single exposure)	1	Causes damage to organs
Specific Target Organ Systemic Toxicity (repeated exposure)	-	N/A
Aspiration Hazard	-	N/A

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Aquatic Ecotoxicity

Ingredient / Chemical Designations	96 hr LC50 Fish (mg/l)	48 hr EC50 Crustacean (mg/l)	ErC50 Algae (mg/l)
Methanol CAS Number: 0000067-56-1	100.00, Pimephales promelas	10,000.00, Daphnia magna	16.912 (96 hr), Ulva pertusa
Ethyl Ether CAS Number: 0000060-29-7	2,560.00, Pimephales promelas	No data available	No data available
Nitrocellulose CAS Number: 0009004-70-0	No data available	No data available	579.00 (96 hr), Pseudokirchneriella subcapitata

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

This product contains no PBT/vPvB chemicals

12.6 Other adverse effects

No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Do not allow into drains or water courses. Wastes and emptied containers should be disposed of in accordance with regulations enacted under the Control of Pollution Act and the Environmental Protection Act.

Using information supplied within this SDS, advice should be obtained from the Waste Regulation Authority whether any special local municipal waste regulations apply.

14. TRANSPORTATION INFORMATION

14.1 Transport Classes

DOT (Domestic Surface Transportation)

DOT Proper Shipping Name: Consumer Commodity
DOT Shipping Class: ORM-D

IMO / IMDG (Ocean Transportation)

IMDG Proper Shipping Name: Flammable Liquid, NOS
IMDG Hazard Class: 3
Sub Class N/A

14.2 Environmental hazards

DOT: N/A

IMDG: Marine pollutant: No

15. REGULATORY INFORMATION

Overview The data provided in this section includes select regulations, and is not inclusive of all regulations that may be applicable to this product. All ingredients of this product are listed on the TSCA Inventory, or are not required to be listed.

WHMIS Classification B2

US EPA Tier II Hazards

Fire:	Yes
Sudden Pressure Release:	No
Reactivity:	No
Immediate Health:	Yes
Delayed Health:	No

EPCRA 311/312 Chemicals and RQ (>0.1%)
Methanol (5,000 lbs)
Ethyl Ether (100 lbs)

EPCRA 302 Extremely Hazardous (>0.1%)
None listed

EPCRA 313 Toxic Chemicals (>0.1%)
Methanol

Proposition 65 - Carcinogens (>0.1%)
None listed

Proposition 65 - Developmental Toxins (>0.0%)
None listed

Proposition 65 - Female Reproductive Toxins (>0.0%)
None listed

Proposition 65 - Male Reproductive Toxins (>0.0%)

None listed

NJ RTK Substances (>1.0%)

Methanol
Ethyl Ether
Nitrocellulose

PA RTK Substances (>1.0%)

Methanol
Ethyl Ether
Nitrocellulose

16. OTHER INFORMATION

All information contained herein is based upon data believed to be correct. However, no guarantee, expressed or implied, is made with respect to the information contained within. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to this product. Users of this product must comply with all health and safety laws and regulations applicable.

The full text of the phrases appearing in section 3 is as follows:

H201 Explosive; mass explosion hazard
H224 Extremely flammable liquid and vapor
H225 Highly flammable liquid and vapor
H301 Toxic if swallowed
H302 Harmful if swallowed
H311 Toxic in contact with skin
H331 Toxic if inhaled
H370 Causes damage to organs

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