



SAFETY DATA SHEET (SDS)

Date Revised : 12 / 15
Supercedes : 03 / 12

PENETRATE
Penetrant / Lubricant
100% Bio-based

Displaces Moisture
Penetrates- Loosens Rusted Parts
Lubricates Moving Parts

SECTION 1 : IDENTIFICATION OF SUBSTANCE / COMPANY

PRODUCT NAME / IDENTIFIER :

PRIMARY APPLICATION / RECOMMENDED USAGE :

“ PENETRATE ” - Made from U.S. Grown Soy Bean Oil
An All – Natural , 100% Bio-based , Ready-to-Use product which is easily applied via a spray method . It is a highly effective, low VOC , low -flammable product that replaces many common high VOC, terpene or petrochemical-based products. This bio-based Penetrant / Lubricant protects metal from rust and corrosion ; penetrates stuck, rusted parts ; displaces moisture; and lubricates most surfaces . Also, cleans grease, grime and marks from hard, non-porous surfaces. Easily rinses with water .

DISTRIBUTED EXCLUSIVELY BY :

HEALTHY CLEAN BUILDINGS

4 Wilmington Drive
Melville, New York 11747

INFORMATION TELEPHONE :

1-631-643-1882

EMERGENCY TELEPHONE :

1-888 -606-9559

USAGE RESTRICTIONS :

Refer to Product Label

SECTION 2 : HAZARD(S) IDENTIFICATION

None as defined under the U.S. OSHA Hazard communication standard (29 CFR 1910, 1200) or the Canadian Hazardous Products Act (S.C. 1987, C.30 – Part I) . Recognized as “Generally Recognized as Safe ” (GRAS) . While this material is not considered hazardous , this SDS contains valuable information critical to the safe handling and proper use of the product . This SDS should be made available to users of this product .

Classification of the substance or mixture (GHS-US) :

NOTE : Prolonged contact with skin or eyes may cause minor physical irritation . Ingredients used to make this product are not acutely toxic .

Label Elements

Hazard Pictograms
(GHS-US Labeling)



Mild Skin & Eye Irritant



Potential Flammable Liquid / Vapor

Signal Word :

Warning

Hazard Statements :

H226 Flammable Liquid and Vapor 2

H316 : May Cause Mild Skin Irritation .

H320 : May Cause Eye Irritation .

Precautionary Statements : P101 : If medical advice is required, have product container or label available .

P102 Keep Out of Reach of Children

P103 . Read Label Before Use .

P264 : In the Event of Direct Contact , Wash Hands and Forearms Thoroughly After Handling

P305+P351+P338 – If In Eyes via Direct Contact , Rinse Cautiously with Water for Several Minutes .

If Easy To Do, Remove Contact Lenses .Continue Rinsing

P337+P313 – If Eye Irritation Persists , Get Medical Advice / Attention .

Other Hazards : None

Ingredients with Known Acute Toxicity : None

PENETRATE – PENETRANT / LUBRICANT page 1



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SECTION 3 : COMPOSITION / INFORMATION ON INGREDIENTS :

Chemical characterization : Mixture

Hazardous Components : N / A

There are No OSHA Hazardous Substances in this product. The exact percentage of ingredients in this product have been withheld as trade secrets . Any hazards associated with this finished product are listed in SECTION 2 of this SDS .

Active Ingredient :	CAS # :	Range in WT % :	PEL -TLV
Soybean Oil Acids , Methyl Esters	67762-38-3 (or 68919-53-9)	<50%	NO OSHA PEL NO ACGIH - TLV
Proprietary Ingredients	Trade Secret	>50%	NONE / NONE

NOTE : Specific Chemical Ingredients Held as Trade Secrets .

SECTION 4 : FIRST AID MEASURES

Description of Necessary Measures :

Relevant Routes of Exposure : Inhalation , Skin Contact , Eye Contact , Ingestion

Description of Necessary Measures :

After Inhalation : Under normal conditions No Effect as per FIFRA CFR 10 – Part 162.10 . Avoid breathing vapor or mist . Under extreme conditions , Move to fresh air . Keep person warm and at rest . If not breathing , if breathing is irregular, or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel . It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation . If unconscious, place in recovery position and get medical attention immediately . Maintain an open airway . Loosen tight clothing such as a collar, tie, belt , or waistband . If adverse conditions persist , consult a doctor. Note : Ingredients are not acutely toxic by inhalation .

After Skin Contact : Under normal conditions No Effect as per FIFRA CFR 10 – Part 162.10 . Under extreme conditions , flush effected skin with plenty of soap and water . Remove contaminated clothing and shoes . Wash clothing before re-use . Clean shoes thoroughly before re-use . If skin irritation or rash persists, seek medical attention .

After Eye Contact : Do Not Rub Eyes . Under normal conditions No Effect as per FIFRA CFR 10 – Part 162.10 . Under extreme conditions , prolonged exposure may cause mild irritation to the eye tissue if not removed . In case of extreme contact , immediately flush eyes with large quantities of warm running water for 15 minutes , lifting upper and lower lids occasionally . If easy to do, remove contact lenses . Continue water rinsing . If eye irritation persists, seek medical attention .

After Ingestion : Under normal conditions No Effect as per FIFRA CFR 10 – Part 162.10 . Under extreme conditions , may cause abdominal discomfort , nausea , or diarrhea . Rinse mouth with water . DO NOT induce vomiting . Move individual to fresh air . Aspiration hazard if swallowed . Can enter lungs and cause damage . If patient is fully conscious, continue to rinse mouth with water and drink 2-3 glasses of water . If adverse conditions persist , seek medical attention . Never give anything by mouth if victim is conscious , rapidly losing consciousness, or is convulsing .

Note to Physicians : No specific treatment . Treat symptomatically . Seek medical attention immediately if large quantities are ingested .

Effects of Chronic Exposure : Non-hazardous by OSHA criteria

Medical Conditions Generally Aggravated by Exposure : None Known



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SECTION 5 : FIRE FIGHTING MEASURES :

Flashpoint : (°F, °C , PMCC) : Closed cup : 275 °F (135°C) / Open Cup : 330 °F (166°C)

Flammability : Flammable under unpredicted spontaneous conditions . May be combustible at high temperature .

Auto-Ignition Temperature : 833 °F (455 °C)

Flammable Limits in Air, % by Volume, Lower Limits : NA

Flammable Limits in Air, % by Volume, Upper Limits : NA

Suitable Extinguishing Media : Use fire extinguishing media appropriate for surrounding materials , such as Foam, Dry Powder, Carbon Dioxide, Water Spray, or Sand .

Unsuitable Extinguishing Media : Water Jet

Specific Hazards Arising from the Chemical : Rags soaked with product may present a fire or spontaneous combustion hazard.

Hazardous Decomposition Products of Combustion : Carbon dioxide , Carbon Monoxide

Fire-fighting procedures : Fire fighters should perform only those fire fighting procedures for which they have been trained . Handle as an oil fire .

Do not use solid water stream on burning liquid pools . Use water spray to cool fire-exposed containers . In a fire or if heated, a pressure increase within the container may occur and the container may burst . Promptly isolate the scene by removing all individuals from the vicinity of the incident if there is a fire . If a spill or leak has not ignited, use a water spray to disperse vapors . Water spray may also be used to flush spills away from fire .

No action should be taken involving any personal risk or without suitable training .

Special Protective Equipment for Fire Fighters : Fire fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode when there is a possibility of exposure to smoke, fumes, or hazardous decomposition products . Use protective equipment appropriate for firefighting surrounding materials .

SECTION 6 : ACCIDENTAL RELEASE MEASURES

Environmental Precautions : Ventilate area . Avoid over exposure to skin, eyes, or clothing . Absorb excess product for disposal with inert solids (ie : sand, clay) as soon as possible . Flush remaining product from spill with water to clean up residue . Absorb slurry with an appropriate liquid-binding absorbent (ie : sand, diatomite , universal binders , sawdust) . Clean contaminated surfaces thoroughly . Store leaky container away from other materials . Place spilled material in a leak-proof, labeled container . Although product is innocuous , make best efforts to prevent entry into sewers and public waters. Take extreme measures to prevent large quantities of product to reach ground water, water course, or sewage system . Dispose of material and container in accordance with local, state, national , and international regulations .

SECTION 7 : HANDLING & STORAGE REQUIREMENTS

KEEP OUT OF REACH OF CHILDREN : Can be used around children, pets, and the chemically sensitive without the concerns of harmful petrochemical exposure .

Precautions for Safe Handling : Read product literature, label , and SDS before use . Use product strictly according to label directions .

Provide adequate ventilation in storage area to prevent formation of fumes .

Hygiene Measures : Launder soiled, contaminated clothing before re-use .

Safe Storage Conditions : Store airtight at room temperature . Keep in original container in a cool , well-ventilated place away from open flames .

Keep container closed when not in use. Avoid excessive heat as product may become liquid at temperatures above 115° F (46.1 °C) . Avoid freezing product as separation will occur .

Incompatible Products : Not Applicable

Incompatible Circumstances : Direct sunlight . Keep from Freezing .



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SECTION 8 : EXPOSURE CONTROLS / PERSONAL PROTECTION

Healthy & Safety Accreditation : Bio-based .

Workplace Control Parameters : If work practices generate dust, fumes, gas, vapors, or mists which expose individuals to abnormal exposure above the occupational exposure limits, local exhaust ventilation or other engineering controls should be considered .

Engineering Controls : Adequate general ventilation

Personal Protective Equipment : When using this product as directed on the product label , no protective equipment is necessary . None required by OSHA or NIOSH . Take normal precautions when using any botanical- based product .

Respiratory Protection : May not be required under normal conditions of use if adequate ventilation exists . Otherwise, use appropriate mask

Skin / Hand Protection : May not be required under normal conditions . Avoid prolonged skin contact . Otherwise , wear chemical resistant gloves .

Eye Protection : May not be required under normal conditions . Otherwise , wear chemical goggles, safety glasses , or full face shield .

Other Information : DO NOT eat, drink, or smoke during use . .

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

Physical State : Liquid

Color : Translucent White / Yellow Liquid

Odor : Mild

pH (@ 1 % Solution) : 4.0 – 5.0

Specific Gravity (Water = 1) : 0.975 – 0.996

Boiling Point (Initial) : 467.6 °F (242°C)

Flashpoint : (°F, °C , PMCC) : Closed cup : 275 °F (135°C) / Open Cup : 330 °F (166°C)

Melting Point : NA

Flammability : Flammable under unpredicted spontaneous conditions . May be combustible at high temperature .

Solubility in Water : Emulsifiable

Vapor Pressure : 0.0031 kPa (0.023 mm Hg)

Vapor Density : 3.5 (Air = 1)

Auto-ignition Temperature : 806°F (430°C)

Freezing Point : Not Determined

% VOC (by weight) : < 1 % (Diluted)

Evaporation Rate (Ethyl Ether=1) : ND

Explosive Limits : Undetermined

Decomposition Temp. : NE

Partition coefficient : (n-octanol/water) Undetermined

SECTION 10 : STABILITY AND REACTIVITY

Reactivity : No Additional Information Available

Chemical stability : Stable under Normal Conditions .

Possibility of Hazardous Reactions : As a bio-solvent, Keep away from open sparks / flames.

Conditions to Avoid : Direct Sunlight . Extremely High or Low Temperatures . If product is frozen, irreversible separation may occur .

Incompatible Materials : Acids , Aldehydes, Ketones, Strong Oxidizing Agents.

Hazardous Decomposition By-products : Carbon Dioxide, Carbon Monoxide .

Hazardous Polymerization : Under normal conditions of storage and use, hazardous polymerization will not occur .

SECTION 11 : TOXICOLOGICAL INFORMATION

Information on Toxicological Effects : There are No OSHA Hazardous Substances in this product as defined under the U.S. OSHA Hazard Communication Standard (29 CFR 1910, 1200) or the Canadian Hazard Products Act (S.C. 1987, C 30 – Part I) . Any hazards associated with this finished product are listed in SECTION 2 of this SDS .

Likely Routes of Exposure : Inhalation, Ingestion, Skin Contact, Eye Contact

Inhalation : Little , if any, Irritating Effect . If an allergic reaction does occur , move individual to fresh air .

Skin Contact : Little, if any, Irritating Effect . A 24 hour human skin patch test indicated that undiluted material produced very mild irritation .

Irritancy was less than that produced by a 4% aqueous soap solution . In extreme cases , if " Redness " or Sensitization occurs through direct skin contact , seek the attention of a physician immediately .

Eye Contact : Irritating Effect May Occur Through Direct Contact . Application of undiluted material produced mild , transient irritation (Rabbit) .

In extreme cases , if "redness" and watering of eyes persists , seek the attention of a physician immediately .

Ingestion : None Under Normal Use . LD50>50ml/kg (Albino Rats) In extreme cases , nausea , stomach cramps , or vomiting may occur .



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TOXICOLOGICAL INFORMATION (continued)

Symptoms Related to the Physical, Chemical, and Toxicological Characteristics : No Further Information
 Available Delayed and Immediate Effects (Chronic Effects from Short and Long Term Exposure) : Unknown
 Delayed and Immediate Effects : Unknown.
 Chronic Effects : Unknown.
 Teratogenicity, Mutagenicity : No Data Available
 Reproductive Toxicity : Not Classified
 Specific Target Organ Toxicity (Single Exposure) : Not Classified
 Specific Target Organ Toxicity (Repeated Exposure) : Not Classified
 Carcinogenic Categories : No components present at 0.1 % or greater are listed as being carcinogens by OSHA, ACGIH , IARC, or NTP .
 SARA – Section 13 (Toxic Chemical Release Reporting) 40 CFR 372 : No ingredients above reportable quantities .
 NTP (National Toxicity Program) : None of the Ingredients are listed
 IARC (International Agency for Research on Cancer) : None of the ingredients are listed .
 OSHA (Occupational Safety and Health Administration) : None of the Ingredients are listed
 Measures of Toxicity : The following Acute Toxicity Estimates (ATE) are calculated on this GHS document . Data not available or is insufficient for classification .
 Acute Toxicity : (see table below)

<u>Proprietary Formulated Product :</u>	<u>Test :</u>	<u>Species :</u>	<u>Result :</u>	<u>Exposure :</u>
	LD50	Rabbit	Dermal= > 2000 mg/ kg	NA
	LD50	Rat	Oral= > 5000 mg/ kg	NA

Chronic Toxicity : (see table below)

<u>Proprietary Formulated Product :</u>	<u>Test :</u>	<u>Species :</u>	<u>Result :</u>	<u>Exposure :</u>
	Sub-Chronic Oral	Rat Male / Female	>5000 mg/ kg	90 days

Symptoms / Injuries After Inhalation : Not Established
 Symptoms / Injuries After Skin Contact : Not Established
 Symptoms / Injuries after Eye Contact : Not Established
 Symptoms / Injuries after Ingestion : Not Established

SECTION 12 : ECOLOGICAL INFORMATION

ENVIRONMENTAL ACCREDITATION : Bio-based





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ECOLOGICAL INFORMATION : (continued)

ECOTOXICITY :

Ingredients : This information is provided from ingredients only . 96 hour LC 50 for Bluegills was > 1000 mg/ L . Does not show any microbial inhibition up to 10,000 mg/ L . Otherwise , See SECTION 3 of this SDS .

Ecotoxicity / Species : Aquatic

<u>Product / Ingredient Name :</u>	<u>Test :</u>	<u>Species :</u>	<u>Result :</u>	<u>Exposure :</u>
Proprietary Formulated Product	DIN DIN 38412 Part 8	Bacteria	Acute EC50 25619 mg / L	16 hours
	OECD 202 Daphnia sp.	Daphia	Acute EC50 > 1000 mg/ L	48 hours Static
	Acute Immobilization Test and Reproduction Test	Fresh Water		
	OECD 201 Alga, Growth Inhibition Test	Algae	Acute EC50 > 929 mg / L Fresh Water	72 hours Static
	EU EC C.1 Acute Toxicity for Fish	Fish	Acute LC50 > 1000 mg/ L Fresh water	96 hours Semistatic

Mobility : This product is miscible in water.

Degradability : This product is readily biodegradable.

<u>Product / Ingredient Name :</u>	<u>Test :</u>	<u>Result :</u>	<u>Dose :</u>	<u>Inoculum :</u>
Proprietary Formulated Product	OECD 301 B Ready Biodegradability – CO2 Evolution Test	83.5 to 87.7 % - Readily – 29 days	20 mg / L Carbon dioxide production	NA



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ECOLOGICAL INFORMATION : (continued)

<u>Product / Ingredient Name :</u>	<u>Aquatic Half-Life :</u>	<u>Photolysis :</u>	<u>Biodegradability :</u>
Proprietary Formulated Product	NA	NA	Readily

Additional Information : None available

BIOACCUMULATIVE POTENTIAL :

<u>Product / Ingredient Name :</u>	<u>LogPow :</u>	<u>BCF :</u>	<u>Potential :</u>
Proprietary Formulated Product	-0.41	NA	Low

TERRESTRIAL TOXICITY :No Additional Information Available

MOBILITY IN SOIL:No Additional Information Available

OTHER ADVERSE EFFECTS :

Effect on Ozone Layer :This product does not contain nor is it manufactured with ozone depleting substances .

Effect on Global Warming :No Additional Information Available

Other Information :Not Applicable

SECTION 13 : DISPOSAL CONSIDERATIONS

Waste Disposal Recommendations : Dispose in safe manner in accordance with local / state / federal / international regulations.
 Dispose of contents / container in accordance with local/regional/national/ international regulations . May be burned in a chemical incinerator with an afterburner and scrubber after consulting with the waste disposal facility operator and the pertinent authorities while adhering to the necessary regulations .

Ecology – Waste Materials : Avoid release into environment .

Recommended Cleansing Agents : Water Only

SECTION 14 : TRANSPORT INFORMATION

US DOT, IATA, IMDG, TDG, SCT : This product is not regulated for transport.

ADDITIONAL INFORMATION : No other special precautions with transport are known.



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SECTION 15 : REGULATORY INFORMATION

Safety, Health, and Environmental Regulations/Legislation specific for the substance or mixture

OSHA HAZARD COMMUNICATION RULE, 29 CFR 1910.1200 :

The Occupational Safety and Health Administration requires Safety Data Sheets to provide any hazards that may be associated with the product and make this information available in the workplace. Since the use pattern and exposure in the workplace are generally not consistent with those experienced by consumers, this SDS may contain additional health hazard information not pertinent to consumer use.

US TSCA INVENTORY STATUS : All chemicals used in this product are either listed on or exempt from the TSCA Inventory. In compliance .

CERCLA HAZARDOUS SUBSTANCE LIST (40 CFR 302.4): Not regulated.

SARA 302 COMPONENTS (40 CFR 355, Appendix A) : No chemicals used in this product are reportable under SARA Title III, Section 302.

SARA 311/ 312 / 313 COMPONENTS : No chemicals used in this product are reportable under SARA Title III, Section 311-313.

CLEAN AIR ACT (CAA) , Section 112 (r) , Accidental Release Prevention (40 CFR 68.130) : Not regulated

CLEAN WATER ACT , Section 311 , Hazardous Substances (40 CFR 117.3): Not regulated.

DRUG ENFORCEMENT ACT : Not regulated.

CANADA DSL STATUS : All chemicals used in this product are either listed or exempt. (CEPA) : Listed on DSL .

WHMIS : Class D-2B . This is not a WHMIS controlled product.

EUROPE (EINECS) : Listed on EINECS

AUSTRALIA (NOHSC) : In Compliance

CHINA : In Compliance

JAPAN (ENCS) - Listed on MITI

KOREA : In Compliance

PHILLIPINES : In Compliance

MEXICAN DANGEROUS STATEMENT : This product is not dangerous according to Mexican regulations.

CALIFORNIA PROPOSITION 65 : This product is not known to contain any chemicals currently listed under California Proposition 65 at reportable levels.

MASSACHUSETTS COMMONWEALTH'S RIGHT- TO - KNOW : Soybean Oil

MICHIGAN CRITICAL MATERIAL LIST (Michigan Natural Resources and Environmental Protection Act (Act. 451 of 1994)): Not regulated.

MINNESOTA HAZARDOUS SUBSTANCES LIST : Soybean oil

NEW JERSEY WORKER AND COMMUNITY RIGHT – TO - KNOW : No chemicals used in this product are reportable under the New Jersey's Right -to -Know Act.

PENNSYLVANIA WORKER AND COMMUNITY RIGHT – TO - KNOW : Soybean Oil

RHODE ISLAND RIGHT – TO - KNOW : Soybean oil



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Lubricates Moving Parts

SECTION 16 : OTHER INFORMATION

HMIS Rating		GHS classification ratings order of severity differ from NFPA and HMIS	
HEALTH	1	HMIS/NFPA Hazard Ratings	GHS Hazard Categories
FLAMMABILITY	1	0= Minimal Hazard	Cat 1 ~ Severe Hazard
PHYSICAL HAZARD	0	1= Slight Hazard	Cat 2 ~ Serious Hazard
PERSONAL PROTECTION	B	2= Moderate Hazard	Cat 3 ~ Moderate Hazard
		3= Serious Hazard	Cat 4 ~ Slight Hazard
		4= Severe Hazard	Cat 5 ~ Minimal Hazard

DISCLAIMER : This document is intended to provide a brief summary of our present knowledge and guidance regarding the use of this material . The information set forth herein has been compiled from sources to be dependable and is believed to be accurate as of the date of issuance . This information is offered in good faith by HEALTHY CLEAN BUILDINGS and no warranty, expressed or implied, is made . The user assumes all liability for any damage or injury resulting from misuse, from any failure to adhere to recommended practices according to product label (and such), or from any hazards inherent in the nature of the product . This document shall not constitute a guarantee for any specific product features and shall not establish a legally valid contracted relationship.

Footnotes : CALC-Calculated; COR-Corrosive; CS-Cancer Suspect Agent; EST-Estimated; HMIS-Hazardous Material Identification System; NA-Not Applicable; ND-No Data ; NE – Data Not Established; OX- Oxidizer; PEL-Permissible Exposure Limit; PPI-Personal Protection Index ; STEL-Short Time Exposure Limit; TLV-Threshold Limit Value; TWA-Time Weighted Average