SAFETY DATA SHEET
Bio-Strip

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifier
Product Name: STRIPPER
Product Codes(s): Bio-Stripper
Synonyms: Bio-based stripper
REACH Registration: Some materials in this product have been registered according to Regulation (EC) 1907/2006. The remaining substances in this product have been pre-registered according to Article 2 REACH Regulation (EC) No 1907/2006.

1.2 Relevant identified uses of the substance or mixture and uses advised against
General Use: Paint, coating and film stripper; graffiti remover
Uses advised against: None known

1.3 Details of the supplier and of the safety data sheet
Manufacturer/Distributor
Seal 'n Lock System Corp.
13215 N. Nebraska Avenue, Bldg. A
Tampa. FL 33612 USA
+1-813-304-1500

1.4 Emergency telephone number: +1-813-852-1500

SECTION 2 - HAZARDS IDENTIFICATION

2.1 Classification of substance or mixture
Product definition: Mixture
Classification (Regulation (EC) No 1272/2008)
Flammable liquid - Category 4 [H227]
Skin Corrosion/Irritation - Category 2 [H315]
Eye Damage/Irritation - Category 2A [H319]

2.2 Label Elements
Labeling (Regulation (EC) No 1272/2008)

Hazard Symbols

GHS07

Signal Word: Warning

Hazard Statement(s):
H227 - Combustible liquid
H315 - Causes skin irritation
H319 - Causes serious eye irritation

Precautionary Statements:

[Prevention]
P210 - Keep away from heat, sparks, open flames, and hot surfaces. - No smoking.
P261 - Avoid breathing mists or spray.
P280 - Wear protective gloves, protective clothing, and eye protection.
P264 - Wash hands thoroughly after handling.

[Response]
P370 + P378 - In case of fire: Use water fog, foam, dry chemical or carbon dioxide for extinction.
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.
P332 + P313 - If skin irritation occurs: Get medical attention.
P362 - Take off contaminated clothing and wash before reuse.
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 - If eye irritation persists: Get medical attention.

[Storage]
P403 + P235 - Store in well-ventilated place. Keep cool.

[Disposal]
P501 - Dispose of contents in accordance with national and local regulations.

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances
Not applicable

3.2 Mixtures
Chemical characterization (preparation)

% by Weight	Ingredient	CAS Number	EC Number	Index Number	EC Classification
<30	Dimethyl sulfoxide	67-68-5	200-664-3	----------	----------
<5	Formic acid	64-18-6	200-579-1	607-001-00-0	Xi, R36/38

Product contains proprietary ingredients that are non-toxic. The identities of the components are available to the attending physician or paramedical personnel in case of emergency.

SECTION 4 - FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation: If product vapor or mist causes respiratory irritation or distress, move the exposed person to fresh air immediately. If breathing is difficult or irregular, administer oxygen; if respiratory arrest occurs, start artificial respiration by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. If symptoms persist, seek medical attention immediately.

Eyes: Immediately flush eyes with large amounts of water for 15 minutes. Remove contact lenses, if present, after the first 2 minutes and continue rinsing. Obtain immediate medical attention, preferably from an ophthalmologist.

Skin: Flush skin with large amounts of water while removing contaminated clothing. Wash affected area with soap and water. Wash contaminated clothing and shoes thoroughly before reuse. Seek prompt medical attention if irritation persists or rash develops.

Ingestion: Rinse mouth with water. Remove dentures, if any. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

4.2 Most important symptoms and effects, both acute and delayed

Potential health symptoms and effects

Eyes: Causes moderate to severe eye irritation. Symptoms include redness, swelling, burning sensation and tearing.

Skin: May cause moderate to severe skin irritation.

Inhalation: Inhalation of mist or vapor may cause irritation of the respiratory system.

Chronic: No information available.

SECTION 5 - FIRE FIGHTING MEASURES

5.1 Extinguishable media

Suitable methods of extinction: Use media such as water fog, water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable methods of extinction: Using water jets or streams may spread the fire.

5.2 Special hazards arising from the substance or mixture

Combustible material. Closed containers may explode due to the buildup of pressure when exposed to extreme heat. During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

5.3 Advice for firefighters

Full protective equipment including self-contained breathing apparatus should be used. Water may be used to cool closed containers to prevent pressure buildup and possible autoignition or explosion when exposed to extreme heat. If possible, firefighters should control runoff water to prevent environmental contamination.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Wear appropriate protective clothing designated in Section 8. Remove all sources of ignition. Ventilate the area.

6.2 Environmental precautions

Avoid dispersal of spilled material or runoff and prevent contact with soil and entry into drains, sewers or waterways.

6.3 Methods and materials for containment and cleaning up

Cover drains and contain spill. Cover with a large quantity of inert absorbent. Do not use combustible material such as saw dust. Collect product using non-sparking tools and place into approved container for proper disposal. Observe possible material restrictions (Sections 7.2 and 10.5). Clean contaminated area with soap and water.

6.4 Reference to other sections

For indications about waste treatment, see Section 13.

SECTION 7 - HANDLING AND STORAGE

7.1 Precautions for safe handling

Observe label precautions. Wear all appropriate protective equipment specified in Section 8. Keep containers closed when not in use.

Advice on protection against fire and explosion

Keep away from heat, sparks and flame. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material.

7.2 Conditions for safe storage, including any incompatibilities

Keep in cool, dry, ventilated storage areas in closed containers. Transfer only to approved containers having correct labeling. Containers that have been opened should be carefully resealed and kept upright to prevent leakage. Do not take internally. Keep out of reach of children.

7.3 Specific end uses

Apart from the uses mentioned in Section 1.2, no other specific uses are stipulated.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

CAS Number	Ingredient	OSHA PEL	ACGIH TLV	NIOSH
64-18-6	**Formic Acid**	5 ppm; 9 mg/m3 TWA	5 ppm TWA; 10 ppm STEL	5 ppm; 9 mg/m3 TWA; 30 ppm IDLH

8.2 Exposure controls

Engineering Measures: Technical measures and appropriate working operations should be given priority over the use of personal protective equipment. Use adequate ventilation. Local exhaust is preferable. Refer to Section 7.

Individual protection measures: Wear protective clothing to prevent repeated or prolonged contact with product. Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the representative supplier.

Hygiene measures: Facilities storing or using this material should be equipped with an eyewash station and safety shower. Change contaminated clothing. Preventive skin protection is recommended. Wash hands thoroughly after use, before eating, drinking or using the lavatory.

Eye/face protection: Wear protective goggles or safety glasses with unperforated side shields during use. Refer to 29 CFR 1910.133, ANSI Z87.1 or European Standard EN 166.

Hand Protection: Wear gloves recommended by glove supplier for protection against materials in section 3. Gloves should be impermeable to chemicals and oil. Breakthrough time of selected gloves must be greater than the intended use period.

Other protective equipment: Protective clothing. Protective boots, if the situation requires.

Respiratory Protection: Always use an approved respirator when vapor/aerosols are generated. Where risk assessment shows air-purifying respirators are appropriate use a full-faced 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).

Environmental exposure controls: Do not empty into drains.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Clear, orange colored liquid
Odor	Sweet
Odor Threshold	Not determined
Molecular Weight	Not applicable
Chemical Formula	Not applicable
pH	3.8 - 4.2 (10% aqueous solution)
Freezing/Melting Point	Not determined
Initial Boiling Point	101°C (213°F)
Evaporation Rate	Not determined
Flammability (solid, gas)	Not applicable
Flash Point	87.8 °C (190 °F)
Autoignition Temperature	Not determined
Decomposition Temperature	Not determined
Lower Explosive Limit (LEL)	Not determined
Upper Explosive Limit (UEL)	Not determined
Vapor Pressure	Not determined
Vapor Density	Not determined
Specific Gravity	1.04 - 1.06
Viscosity	Not determined
Solubility in Water	Slight
Partition Coefficient: n-octanol/water	Not determined
Volatiles by Volume @ 70 ºF	<40%

9.2 Other data

No data available

SECTION 10 - STABILITY AND REACTIVITY

10.1 Reactivity

No special reactivity has been reported.

Hazardous polymerization will not occur.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Reacts with strong oxidizing agents, strong acids, strong bases. Avoid excessive heat and sources of ignition.

The substance decomposes on burning and may produce irritating fumes.

10.4 Conditions to avoid

Heat, sparks, open flames. Extreme temperatures. Contact with incompatible materials.

10.5 Incompatible materials

Strong oxidizing agents, strong acids, organic and inorganic acid chlorides, alkali metals

10.6 Hazardous decomposition products

Thermal decomposition products may include carbon oxides, sulfur oxides, formaldehyde, methyl mercaptan and dimethylsulfide. Dimethyl sulfone is produced via hydrolysis.

SECTION 11 - TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute Oral Toxicity

The oral toxicity of this product is expected to be low based on the oral toxicities of the components.

Acute inhalation toxicity

The inhalation toxicity of this product is expected to be low based on the inhalation toxicities of the components.

Acute dermal toxicity

No data available

Skin irritation
Causes skin irritation

Eye irritation
May cause moderate to severe eye irritation

Sensitization
No data available

Genotoxicity in vitro
No data available

Mutagenicity
No data available

Specific organ toxicity - single exposure
No data available

Specific organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

11.2 Further information

Chronic Effects: The components in this product are not listed as a carcinogen by ACGIH, IARC, NTP or OSHA. No data is available regarding the mutagenicity and/or teratogenicity of this material, nor is there any available data that indicates it causes adverse developmental and/or fertility effects.

Handle in accordance with good industrial hygiene and safety practice.

SECTION 12 - ECOLOGICAL INFORMATION

12.1 Toxicity
Product is expected to have low toxicity to aquatic organisms.

12.2 Persistence and degradability
Material is expected to be biodegradable.

12.3 Bioaccumulation potential
This material is not expected to bioaccumulate based on the partition coefficients of the components.

12.4 Mobility in soil
No information available.

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

12.6 Other adverse effects
Additional ecological information
Do not allow material to run into surface waters, wastewater or soil.

SECTION 13 - DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

Methods of disposal: The generation of waste should be avoided or minimized whenever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

Hazardous waste: The classification of this product may meet the criteria for a hazardous waste.

RCRA U-Series: U132 - Formic Acid

SECTION 14 - TRANSPORT INFORMATION

Note: Transportation information provided is for reference only. Customer is urged to consult 49 CFR 100 - 177, IMDG, IATA, EC, United Nations TDG and WHMIS (Canada) TDG information manuals for detailed regulations and exceptions covering specific container sizes, packaging materials and methods of shipping.

U.S. DOT and Canadian TDG (Non-bulk)
*Non-bulk packages for domestic ground transportation may be reclassified as non-regulated in accordance to 49 CFR 173.150, Exemptions for Class 3 (flammable and combustible liquids).

U.S.A DOT and Canadian TGD

Proper Shipping Name:	Flammable Liquid, N.O.S. (dimethyl sulfoxide)
Hazard Class:	3
UN/NA:	1993
Packing Group:	III
NAERG:	Guide #128
Packaging Authorization:	Non-Bulk: 49 CFR 173.203; Bulk: 173.242
Packaging Exceptions:	49 CFR 173.150

IMO/IMDG

Proper Shipping Name:	Flammable Liquid, N.O. S., (dimethyl sulfoxide)
Hazard Class:	3
UN/NA:	1993
Packing Group:	III
Marine Pollutant:	No
EMS Number:	F-E, S-E

ICAO/IATA

Proper Shipping Name:	Flammable Liquid, N.O. S., (dimethyl sulfoxide)
Hazard Class:	3
UN/NA:	1993
Packing Group:	III

RID/ADR

Proper Shipping Name:	Flammable Liquid, N.O. S., (dimethyl sulfoxide)
Hazard Class:	3
UN/NA:	1993
Packing Group:	III

SECTION 15 - REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for substance or mixture

U. S. Federal Regulations

OSHA Hazard Communication Standard: This material contains "Hazardous Chemicals" as defined by the OSHA Hazard Communication Standard (28 CFR 1910.1200).

TSCA Status: All components of this product are listed on the Toxic Substance Control Act (TSCA) Inventory.

Superfund Amendments and Reauthorization Act (SARA)

SARA Section 311/312 Hazard Categories: Acute Health Hazard, Fire Hazard

SARA 313 Information: The following components are subject to reporting requirements of Section 313 of the Emergency Planning and and Community Right-to Know Act of 1986: Hydrofluoric Acid (CAS #7664-39-3) and 2-Butoxyethanol (CAS #111-76-2).

SARA 302/304 Extremely Hazardous Substance:
No components of the product exceed the threshold (de minimis) reporting levels established by of these sections of Title III of SARA.

SARA 302/304 Emergency Planning & Notification:
No components of the product exceed the threshold (de minimis) reporting levels established by of these sections of Title III of SARA.

Comprehensive Response Compensation and Liability Act (CERCLA): This product contains the following CERCLA reportable chemicals: Formic Acid (CAS #64-18-6), RQ - 2,268 kg (5,000 lbs)

Clean Air Act (CAA)

This product does not contain any chemicals that are listed as Hazardous Air Pollutants (HAPs) designated in CAA Section 112 (b).
This product does not contain any Class 1 Ozone depletors.
This product does not contain any Class 2 Ozone depletors.

Clean Water Act (CWA)

Formic Acid (CAS #64-18-6) is listed as a Hazardous Substance under the CWA.
None of the chemicals in this product are listed as Priority Pollutants under the CWA.
None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

U.S. State Regulations

California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986:
This product contains no chemical(s) known to the state of California to cause cancer or other reproductive harm.

Other U.S. State Inventories:

Dimethyl sulfoxide (CAS #67-68-5) is listed on the following State Hazardous Substance Inventories, Right-to-Know lists and/or Air Quality/ Air Pollutants List(s): NJ.

Formic acid (CAS #64-18-6) is listed on the following State Hazardous Substance Inventories, Right-to-Know lists and/or Air Quality/ Air Pollutants lists: CA, ID, NE, MA, MN, NJ, NY, PA, WA, WI.

Canada

WHMIS Hazard Symbol and Classification:

B-3 - Flammable liquids with flash points greater than 38 °C (100 °F) but inferior to 93 °C (199.4 °F).

Canadian Domestic Substances List / Non-Domestic Substances List (DS/NDSL):
Components of this product identified by CAS number are listed on the DSL, or are otherwise in compliance with the New Substances Notification (NSN) regulations. Only ingredients classified as "hazardous" are listed in Section 3 unless otherwise indicated. Proprietary ingredients are non-hazardous and not controlled products under WHMIS. These are listed on the NDSL.

Canadian Controlled Products Regulations (CPR): This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations, and the MSDS contains all the information required by the Controlled Products Regulations.

Canadian Ingredient Disclosure List (IDL): Dimethyl Sulfoxide is listed on the IDL.

Canadian National Pollutant Release Inventory (NPRI): None of the ingredients in this product are listed on the NPRI.

European Economic Community

Labeling (67/548/EEC or 1999/45/EC)

Xi - Irritant

Risk Phrases: R36/38 - Irritating to eyes and skin.

Safety Phrases: S2 - Keep out of the reach of children.
S24 - Avoid contact with skin.
S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.

WGK, Germany (Water danger/protection): 1

Chemical Inventory Lists

Country	Inventory Name	Inventory Listing*
Canada:	Domestic Substance List (DSL).	Yes
Canada:	Non-Domestic Substance List (NDSL).	No
Europe:	Inventory of New and Existing Chemicals (EINECS)	No
United States:	Toxic Substance Control Act (TSCA)	Yes
Australia:	Australian Inventory of Chemical Substances (AICS)	Yes
New Zealand:	New Zealand Inventory of Chemicals (NZIoC)	Yes
China:	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Japan:	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea:	Existing Chemicals List (ECL)	Yes
Philippines:	Philippines Inventory of Chemicals and Chemical Substances (PICCS)	No

*"Yes" indicates that all components of this product are in compliance with the inventory requirements administered by the governing country.
*"No" indicates that one or more components of this product are not on the inventory and are not exempt from listing.

SECTION 16 - OTHER INFORMATION

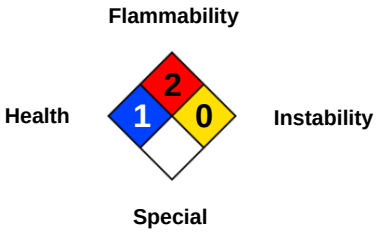
Hazardous Material Information System (HMIS)

Health	2
Flammability	2
Physical Hazard	0
Personal Protection	C

HMIS and NFPA Hazard Rating Legend

* = Chronic Health Hazard	2 = MODERATE
0 = INSIGNIFICANT	3 = HIGH
1 = SLIGHT	4 = EXTREME

National Fire Protection Association (NFPA)



Full Text of Risk (R) – Phrases Referenced in Section 3.

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