

SAFETY DATA SHEET.

Issuing date 26-Jun-2017 Revision Date 26-Jun-2017 Version 1.06

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product name 80-1614 Bio-Maxx Solvent

Recommended use of the chemical

and restrictions on use

Product code 80-1614

Product Type Synonyms

<u>Supplier's details</u> Extremely Flammable Aerosol

None

Recommended Use Uses advised against

Manufactured For:Bio-Based Solvent Degreaser.Kimball MidwestNo information available4800 Roberts Rd.

Columbus, OH 43228 800-233-1294

Emergency telephone number

Chemical Emergency Phone Cher

Number

Company Emergency Phone

Number

Chemtrec 1-800-424-9300

800-233-1294

2. HAZARDS IDENTIFICATION

Classification

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Skin Sensitization	Category 1
Flammable aerosols	Category 1
Gases under pressure	Compressed Gas

GHS Label elements, including precautionary statements

Emergency Overview

DANGER

Hazard Statements

Causes skin irritation

Causes serious eye irritation

May cause an allergic skin reaction.

Extremely Flammable Aerosol

Contains gas under pressure; may explode if heated



Appearance Clear

Physical state Aerosol

Odor Slight Fragrance

Precautionary Statements - Prevention

Wear cold insulating gloves/face shield/eye protection.

Wash hands thoroughly after handling

Wear protective gloves

Avoid breathing dust/fume/gas/mist/vapors/spray

Contaminated work clothing must not be allowed out of the workplace

Keep away from heat/sparks/open flames/hot surfaces.-No smoking.

Do not spray on an open flame or other ignition source.

Pressurized container: Do not pierce or burn, even after use

Precautionary Statements - Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention

IF ON SKIN: Wash with plenty of soap and water.

If skin irritation or rash occurs: Get medical advice/attention

Wash contaminated clothing before reuse

Precautionary Statements - Storage

Store locked up

Protect from sunlight. Store in a well-ventilated place

Do not expose to temperatures exceeding 122°F (50°C)

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

None

Other information

0% of the mixture consists of ingredient(s) of unknown toxicity.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %*
1,1-DIFLUOROETHANE	75-37-6	10-20
ETHOXYLATED ALCOHOL	68439-46-3	1-10
D-LIMONENE	5989-27-5	1-10

^{*}The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

First aid measures for different exposure routes

General advice Under normal conditions of intended use, this product does not pose a risk to Health.

Eye contact Rinse cautiously with water for at least 15 minutes. Remove any contact lenses, if present

and easy to do. Continue rinsing.

Skin contact Wash off immediately with plenty of water. Remove and wash contaminated clothing before

re-use. Rinse immediately with plenty of water for 15 minutes and seek medical advice if

skin irritation persists.

Inhalation Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial

respiration. Get medical attention immediately. If not breathing, give artificial respiration. If

breathing has stopped, contact emergency medical services immediately.

Ingestion Do NOT induce vomiting. Call a physician immediately. Never give anything by mouth to an

unconscious person. Risk of product entering the lungs on vomiting after ingestion.

Most important symptoms/effects, acute and delayed

Main Symptoms Causes eye irritation . May skin , respiratory irritation, and drowsiness or dizziness.

Harmful if swallowed and enters airways. May cause allergic skin reaction.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Water fog. Dry chemical. Foam. Carbon dioxide (CO2). Cool containers / tanks with water spray.

Unsuitable Extinguishing Media Do not use a solid water stream as it may scatter and spread fire.

Specific hazards arising from the chemical

Keep product and empty container away from heat and sources of ignition.

Explosion Data

Sensitivity to Mechanical Impact none.

Sensitivity to Static Discharge Yes.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Use shielding to protect fire-fighters from bursting containers.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation.

Environmental precautions

Environmental precautions Report spills as required by local and federal regulations.

Methods and materials for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Contain liquid and collect with an inter, non-combustible material.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Irritating to eyes. Avoid inhaling vapors or mists. Harmful if inhaled. May cause respiratory

irritation if inhaled. May cause drowsiness or dizzinss. Contents under pressure. Do not puncture or incinerate cans. Do not stick pin or any other sharp object into opening on top of can. Use with adequate ventilation. to keep the exposure levels below the Occupational

Exposure Limits.

Conditions for safe storage, including any incompatibilities

Technical measures/Storage

conditions

Keep containers tightly closed in a dry, cool and well-ventilated place.

Incompatible products Strong acids, alkalis, and oxidizing agents. Carbon oxides.

Aerosol Level 3

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
1,1-DIFLUOROETHANE	TWA 1000 PPM 8 hours	-	-
75-37-6			

ACGIH: (American Conference of Governmental Industrial Hygienists)

OSHA: (Occupational Safety & Health Administration)

Exposure controls

Engineering Measures Ventilation systems. Use adequate ventilation to keep the exposure levels below the

occupational exposure limits.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Safety glasses with side-shields.

Skin and body protection Chemical resistant apron. Protective gloves.

Respiratory protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved

respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be

Not applicable

provided in accordance with current local regulations.

Hygiene measures Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and chemical properties

Physical state Aerosol

Appearance Odor Clear Slight Fragrance

Color Light Amber **Odor Threshold**

Property Values Remarks • Methods

No information available pН Melting/freezing point No information available

Boiling point/boiling range

Flash Point -50 °C / -58 °F Based on propellant

Evaporation rate No information available Flammability (solid, gas) No information available

Flammability Limits in Air upper flammability limit lower flammability limit

Vapor pressure Vapor density

Specific Gravity 0.907

Water solubility Practically insoluble

Partition coefficient: n-octanol/water

Autoignition temperature

No information available **Decomposition temperature**

Viscosity No information available

Explosive properties

Other information

VOC Content(%) 8.56

10. STABILITY AND REACTIVITY

Reactivity

No data available

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

None under normal processing.

Conditions to Avoid

Extremes of temperature and direct sunlight.

Incompatible Materials

Strong acids, alkalis, and oxidizing agents. Carbon oxides.

Hazardous Decomposition Products

Carbon oxides.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information Product does not present an acute toxicity hazard based on known information

Inhalation Inhalation may cause, nose, throat, and respiratory tract irritation, coughing, headache.

Eye contact Contact with eyes may cause irritation.

Skin contact Irritating to skin. Prolonged skin contact may defat the skin and produce dermatitis.

Harmful if swallowed and enters airways. Ingestion

Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
ETHOXYLATED ALCOHOL	= 1400 mg/kg (Rat)	-	-
68439-46-3			
D-LIMONENE	= 4400 mg/kg (Rat)	> 5 g/kg (Rabbit)	-
5989-27-5			

Information on toxicological effects

Symptoms Causes serious eye and skin irritation. May cause respiratory irritation . Harmful if

swallowed and enters airways.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Irritating to skin. Eye damage/irritation Irritating to eyes.

Sensitization May cause sensitization by skin contact.

Germ Cell Mutagenicity None known.

Carcinogenicity There are no carcinogenic chemicals in this product.

Reproductive toxicity This product does contain a chemical which is a known or suspected reproductive hazard. No known effect based on information supplied.

Specific target organ systemic

toxicity (single exposure)

Specific target organ systemic

toxicity (repeated exposure) **Aspiration hazard**

No known effect based on information supplied.

No known effect based on information supplied.

Numerical measures of toxicity - Product Information

Unknown Acute Toxicity 0% of the mixture consists of ingredient(s) of unknown toxicity.

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral) 20233 mg/kg ATEmix (dermal) 98364 mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to microorganisms	Toxicity to daphnia and other aquatic invertebrates
			illicioorganisiiis	other aquatic invertebrates
D-LIMONENE	-	0.619 - 0.796 mg/L LC50	-	-
5989-27-5		Pimephales promelas 96h		
		flow-through 35 mg/L LC50		
		Oncorhynchus mykiss 96h		

Persistence and degradability

Bioaccumulation

Other adverse effects No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment

Waste Disposal Methods Dispose of in accordance with federal, state, and local regulations.

Contaminated packaging Do not re-use empty containers.

14. TRANSPORT INFORMATION

DOT Ground CONSUMER COMMODITY ORM-D

or

LIMITED QUANTITY

IATA UN1950, AEROSOLS, FLAMMABLE, 2.1, LTD.QTY.

IMDG UN1950, AEROSOLS, 2.1, LTD.QTY

15. REGULATORY INFORMATION

International Inventories

Chemical Name	TSCA	DSL/NDSL	EINECS/ELI NCS	ENCS	IECSC	KECL	PICCS	AICS
1,1-DIFLUOROETHA NE	Х	X	X	Х	X	Х	X	Х
ETHOXYLATED ALCOHOL	Х	Х	Not listed	Х	Х	Х	Х	Х
D-LIMONENE	Х	Х	X	Х	Х	Х	Х	Х

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

CHINA - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Acute Health Hazard Yes Chronic Health Star Hazard Yes

Fire Hazard	Yes
Sudden Release of Pressure Hazard	Yes
Reactive Hazard	no

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

U.S. State Regulations

California Proposition 65

This product does not contain any known Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
1,1-DIFLUOROETHANE	X	X	
75-37-6			

EPA Pesticide Registration Number Not applicable

Canada

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

16. OTHER INFORMATION

NFPA Health Hazard 2 Flammability 4 Instability 0 Physical and chemical

hazards -

HMIS Health Hazard 2 Flammability 4 Physical Hazard 1 Personal protection B

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Revision Note

(M)SDS sections updated

Disclaimer

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End of Safety Data Sheet
