

# SAFETY DATA SHEET.

Issuing date 11-Nov-2015 Revision Date 25-Sep-2020 Version 1.07

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

**Product identifier** 

Product name 80-1614 BIO-MAXX DGRSR

Recommended use of the chemical

and restrictions on use

Product code F00513

<u>Product Type</u> Extremely Flammable Aerosol

Synonyms None

Supplier's details

**Recommended Use**Bio-Based Solvent Degreaser.

Uses advised against No information available

Manufactured For: Kimball Midwest 4800 Roberts Rd. Columbus, OH 43228 800-233-1294

Emergency telephone number

Chemical Emergency Phone CHEMTREC: 1-800-424-9300

Number

Company Emergency Phone 800-233-1294

Number

## 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 Fragrance

#### **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling.

Wear protective gloves, eye protection, face protection.

Avoid breathing fumes, 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**

Specific treatment (see first aid on this label).

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.

Take off contaminated clothing and wash it before reuse.

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

### **Precautionary Statements - Storage**

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

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#### Other information

0.000005% of the mixture consists of ingredient(s) of unknown toxicity.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %*
SOY METHYL ESTER	67784-80-9	70-80
1,1-DIFLUOROETHANE	75-37-6	10-20
ETHOXYLATED ALCOHOL	68439-46-3	1-10
D-LIMONENE	5989-27-5	1-10

<sup>\*</sup>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** Avoid contact with eyes, skin, and clothing. Avoid breathing vapors, mist, or gas.

Eye contact Immediately flush with plenty of water for at least 15 minutes. After initial flushing, remove

any contact lenses and continue flushing. If eye irritation persists, consult a doctor.

Skin contact Wash off with soap and plenty of water. If skin irritation persists, call a physician. Remove

and wash contaminated clothing before re-use.

**Inhalation** Move to fresh air. If not breathing, give artificial respiration. If breathing has stopped,

contact emergency medical services immediately.

Ingestion Call a physician or Poison Control Center immediately. Do NOT induce vomiting. Never

give anything by mouth to an unconscious person. Risk of product entering the lungs on

vomiting after ingestion.

**Protection of First-aiders** Remove all sources of ignition.

#### Most important symptoms/effects, acute and delayed

Main Symptoms Causes skin and serious eye irritation. May cause an allergic skin reaction. May cause

respiratory irritation. May cause drowsiness or dizziness.

#### 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. Keep away from sources of ignition - No smoking.

### Specific hazards arising from the chemical

Extremely Flammable / Flammable. Keep product and empty container away from heat and sources of ignition. In the event of fire and/or explosion do not breathe fumes. In the event of fire, cool tanks with water spray.

Hazardous Combustion Acrid smoke/fumes. Carbon oxides , Hydrocarbons, Fumes. Sulfur oxides.

**Products** 

**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. In the event of fire and/or explosion do not breathe fumes.

#### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions

Use with adequate ventiliation to keep the exposure levels below the OELS. Follow safe

handling advice and personal protective equipment recommendations.

**Environmental precautions** 

Environmental precautions Vapors can accumulate in low areas. Report spills as required by local and federal

regulations. Do not flush into surface water or sanitary sewer system. Do not allow material

to contaminate ground water system. Should not be released into the environment.

Methods and materials for containment and cleaning up

Methods for Containment Absorb with earth, sand or other non-combustible material and transfer to containers for

later disposal. Prevent further leakage or spillage if safe to do so. Do not allow material to

contaminate ground water system. Prevent product from entering drains.

Methods for cleaning up Soak up with inert absorbent material. Contain liquid and collect with an inter,

non-combustible material. Pick up and transfer to properly labeled containers. Clean contaminated surface thoroughly . After cleaning, flush away traces with water. Prevent product from entering drains. Take precautionary measures against static discharges.

### 7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Avoid breathing vapors or mists. Avoid contact with skin, eyes and clothing. Keep away

from open flames, hot surfaces and sources of ignition. Contents under pressure. Do not puncture or incinerate cans. Handle in accordance with good industrial hygiene and safety

practice. Take precautionary measures against static discharges.

Conditions for safe storage, including any incompatibilities

Technical measures/Storage

conditions

Keep container tightly closed in a dry and well-ventilated place. Keep away from open flames, hot surfaces, and sources of ignition. Keep in properly labeled containers. Keep out

of the reach of children. Store locked up.

**Incompatible products** Strong acids, alkalis, oxidizing agents.

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			

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ACGIH: (American Conference of Governmental Industrial Hygienists)

OSHA: (Occupational Safety & Health Administration) NIOSH IDLH: Immediately Dangerous to Life or Health

Other Exposure Guidelines Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962

(11th Cir., 1992).

**Exposure controls** 

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

occupational exposure limits. Showers, eyewash stations, and ventilation systems.

Individual protection measures, such as personal protective equipment

**Eye/Face Protection** Safety glasses with side-shields. Tightly fitting safety goggles.

Chemical resistant apron. Protective gloves. Skin and body protection

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** Clear Odor Fragrance

Light Amber **Odor Threshold** Color

Remarks • Methods Property Values

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** 0.889

Water solubility No information available

Partition coefficient: n-octanol/water

**Autoignition temperature** 

**Decomposition temperature** 

No information available

Viscosity

**Explosive properties** 

No information available

**Other information** 

VOC Content(%) 8.56 MIR Value 0.20

### 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, oxidizing agents.

#### **Hazardous Decomposition Products**

Carbon oxides, Hydrocarbons, Fumes.

#### 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

#### **Product Information**

**Inhalation** Respiratory irritation may occur if excessive exposure to product by inhalation.

**Eye contact** Causes serious eye irritation.

**Skin contact** Causes skin irritation. May cause an allergic skin reaction.

**Ingestion** May be harmful if swallowed.

**Component Information** 

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
ETHOXYLATED ALCOHOL	= 1378 mg/kg (Rat) = 1400 mg/kg	> 2 g/kg (Rabbit)	-
68439-46-3	(Rat)	,	
D-LIMONENE	= 4400 mg/kg (Rat) = 5200 mg/kg	> 5 g/kg (Rabbit)	-
5989-27-5	( Rat )	,	

### Information on toxicological effects

**Symptoms** Causes skin and serious eye irritation. May cause an allergic skin reaction.

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

Skin corrosion/irritationIrritating to skin.Eye damage/irritationIrritating to eyes.SensitizationKnown skin sensitizer.Germ cell mutagenicityNot a germ cell mutagen.

Carcinogenicity The table below indicates whether each agency has evaluated a listed ingredient as a

carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
D-LIMONENE	-	-	-	X
5989-27-5				

IARC: (International Agency for Research on Cancer) Group 3 - Not Classifiable as to Carcinogenicity in Humans OSHA: (Occupational Safety & Health Administration)

X - Present

Reproductive toxicity
Specific target organ systemic
toxicity (single exposure)
Specific target organ systemic

Specific target organ systemic toxicity (repeated exposure)

This product does not contain any known or suspected reproductive hazards.

No known effect based on information supplied.

No known effect based on information supplied.

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Chronic toxicity Intentional misuse by deliberately concentrating and inhaling contents may be harmful or

fatal. Chronic hydrocarbon abuse has been associated with irregular heart rhythms and

potential cardiac arrest.

Target Organ Effects No known effects under normal use conditions.

**Neurological effects** Intentional misuse by deliberately concentrating and inhaling contents may be harmful or

fatal.

Aspiration hazard No known effect based on information supplied.

Numerical measures of toxicity - Product Information

**Unknown Acute Toxicity** 0.000005% 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)
 5715 mg/kg

 ATEmix (dermal)
 7152 mg/kg

 ATEmix (inhalation-gas)
 198334 mg/l

 ATEmix (inhalation-dust/mist)
 245.6 mg/l

 ATEmix (inhalation-vapor)
 271.8 mg/l

### 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to	Toxicity to daphnia and
		-	microorganisms	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. This material, as

supplied, is a hazardous waste according to federal regulations (40 CFR 261). Dispose of in accordance with federal, state, and local regulations. Dispose of in accordance with local

regulations.

**Contaminated packaging** Empty containers should be taken to an approved waste handling site for recycling or

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

SCHEDULE B CODE: 3403.99.0000.

#### **International Inventories**

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

#### <u>SARA 313</u>

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 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

Chronic Hazard Star Legend Chronic Health Star Hazard Repeated or prolonged exposure may cause central nervous system

damage

Prepared By
Issuing date
Revision Date
Revision Date
Revision Date
Regulatory Affairs
11-Nov-2015
25-Sep-2020

**Revision Note** 

(M)SDS sections updated 1

**Disclaimer** 

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

**End of Safety Data Sheet**