



# SAFETY DATA SHEET

Issuing date 09-Oct-2017

Revision Date 18-Jul-2024

Version 1.08

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

**Product identifier**

**Product name** BIO-MAXX DEGREASER

**Other means of identification**

**Product code** 80-1614

**Product Type** Non-flammable aerosol

**Synonyms** None

**Recommended use of the chemical and restrictions on use**

**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 Number** CHEMTREC : 1-800-424-9300

**Company Emergency Phone Number** 800-233-1294

**2. HAZARDS IDENTIFICATION****Classification**

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

**GHS Label elements, including  
precautionary statements****Emergency Overview****Warning****Hazard Statements**

Causes skin irritation  
Causes serious eye damage  
May cause an allergic skin reaction  
Contains gas under pressure; may explode if heated



**Appearance** Clear **Physical state** Aerosol **Odor** Solvent

**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 should not be allowed out of the workplace.

**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

**Precautionary Statements - Disposal**

Dispose of contents, container to an approved waste disposal plant.

**Hazards not otherwise classified (HNOC)**

Not applicable

**Other information**

No information available.

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

0 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity  
0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)  
0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)  
0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight-%
SOY METHYL ESTER	67784-80-9	75-85
ETHOXYLATED ALCOHOL	68439-46-3	1-10
D-LIMONENE	5989-27-5	1-10
CARBON DIOXIDE	124-38-9	1-10

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

### 4. FIRST AID MEASURES

#### Description of first aid measures

<b>General advice</b>	Avoid contact with eyes, skin, and clothing. Avoid breathing vapors, mist, or gas.
<b>Eye contact</b>	Rinse immediately with plenty of water for 15 minutes and seek medical advice.
<b>Skin contact</b>	Wash off with soap and plenty of water. Remove and wash contaminated clothing before re-use. If skin irritation persists, call a physician.
<b>Inhalation</b>	Move to fresh air. If not breathing, give artificial respiration. If breathing has stopped, contact emergency medical services immediately.
<b>Ingestion</b>	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. Call a physician or Poison Control Center immediately.
<b>Protection of First-aiders</b>	Remove all sources of ignition.

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

<b>Main Symptoms</b>	Causes skin and serious eye irritation. May cause an allergic skin reaction.
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#### Indication of any immediate medical attention and special treatment needed

<b>Notes to physician</b>	Treat symptomatically.
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### 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

Keep product and empty container away from heat and sources of ignition. In the event of fire and/or explosion do not breathe fumes.

**Hazardous Combustion Products**

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

**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 ventilation 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 material for containment and cleaning up****Methods for Containment**

Prevent further leakage or spillage if safe to do so. Do not allow material to contaminate ground water system. Prevent product from entering drains. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.

**Methods for cleaning up**

Soak up with inert absorbent material. Contain liquid and collect with an inert, 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 tightly closed in a dry and cool place. 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. Keep container tightly closed in a cool, 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
CARBON DIOXIDE 124-38-9	STEL: 30000 ppm TWA: 5000 ppm	TWA: 5000 ppm TWA: 9000 mg/m <sup>3</sup> (vacated) TWA: 10000 ppm (vacated) TWA: 18000 mg/m <sup>3</sup> (vacated) STEL: 30000 ppm (vacated) STEL: 54000 mg/m <sup>3</sup>	IDLH: 40000 ppm TWA: 5000 ppm TWA: 9000 mg/m <sup>3</sup> STEL: 30000 ppm STEL: 54000 mg/m <sup>3</sup>

ACGIH: (American Conference of Governmental Industrial Hygienists)

OSHA: (Occupational Safety &amp; 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).

**Appropriate engineering controls****Engineering Measures**

Ventilation systems. Use adequate ventilation to keep the exposure levels below the occupational exposure limits. Showers, eyewash stations, and ventilation systems. Showers. Eyewash stations.

**Individual protection measures, such as personal protective equipment****Eye/Face Protection**

Tightly fitting safety goggles.

**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 provided in accordance with current local regulations.

**Hygiene measures**

Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Information on basic physical and chemical properties****Physical state**

Aerosol

**Appearance**

Clear

**Color**

Light Amber

**Odor**

Solvent

**Odor Threshold****Property****Values****Remarks • Method****pH**

No information available

**Melting/freezing point**

No information available

**Boiling point/boiling range**

No information available

**Flash Point**

160 °C / 320 °F

(based on components) Flame Ignition Tested for degree or not of Flammability for GHS Classification in Section 2. NOT FLAMMABLE FOR GHS For CPSC label classification as Non-Flammable.

**Evaporation rate**

No information available

**Flammability (solid, gas)**

No information available

**Flammability Limits in Air**

upper flammability limit

lower flammability limit

No information available

**Vapor pressure**

Vapor density	No information available	
Specific gravity	0.889	
Water solubility	No information available	
Partition coefficient: n-octanol/water		
Autoignition temperature	No information available	Not applicable
Hyphen		
Viscosity	No information available	
Explosive properties		

**Other information**

VOC Content(%)	9.75
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## 10. STABILITY AND REACTIVITY

**Reactivity**

Stable under recommended storage conditions No data available

**Chemical stability**

Stable under recommended storage conditions.

**Possibility of hazardous reactions**

None under normal processing.

**Conditions to Avoid**

Heat, flames and sparks.

**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 68439-46-3	= 1400 mg/kg ( Rat )	-	-
D-LIMONENE 5989-27-5	= 5200 mg/kg ( Rat ) = 4400 mg/kg ( Rat )	> 5 g/kg ( Rabbit )	-

**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**

<b>Skin corrosion/irritation</b>	Irritating to skin.
<b>Eye damage/irritation</b>	Irritating to eyes.
<b>Sensitization</b>	Known skin sensitizer.
<b>Germ cell mutagenicity</b>	Not a germ cell mutagen.
<b>Carcinogenicity</b>	The table below indicates whether each agency has evaluated a listed ingredient as a carcinogen.

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

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

<b>Reproductive toxicity</b>	This product does not contain any known or suspected reproductive hazards.
<b>Specific target organ systemic toxicity (single exposure)</b>	None known.
<b>Specific target organ systemic toxicity (repeated exposure)</b>	None known.
<b>Chronic toxicity</b>	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.
<b>Target Organ Effects</b>	None known.
<b>Neurological effects</b>	Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal.
<b>Aspiration hazard</b>	No information available.

#### Numerical measures of toxicity - Product Information

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

ATEmix (oral) 23,189.90 mg/kg ppm mg/l

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 0 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity  
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 0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)  
 0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

ATEmix (inhalation-vapor) 271.8 mg/l

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
D-LIMONENE 5989-27-5	-	LC50: 0.619 - 0.796mg/L (96h, Pimephales promelas) LC50: ≈35mg/L (96h, Oncorhynchus mykiss)	-	-
CARBON DIOXIDE 124-38-9	-	0.46 mg/L LC50 Oncorhynchus mykiss	-	-

### Persistence and degradability

### Bioaccumulation

Chemical Name	Partition coefficient
D-LIMONENE 5989-27-5	4.38

**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**

LIMITED QUANTITY

**IATA**

UN1950, AEROSOLS, NON-FLAMMABLE, 2.2, LTD. QTY

**IMDG**

UN1950, AEROSOLS, 2.2,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	X	X	X	Not listed	X	X	Not listed	X
ETHOXYLATED ALCOHOL	X	X	Not listed	X	X	X	X	X
D-LIMONENE	X	X	X	X	X	X	X	X
CARBON DIOXIDE	X	X	X	X	X	X	X	X

**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

**US 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 Hazard	No
Fire hazard	No
Sudden release of pressure hazard	Yes
Reactive Hazard	No

**CWA (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

**US State Regulations****California Proposition 65**

This product does not contain any Proposition 65 chemicals

Note

**U.S. State Right-to-Know Regulations**

Chemical Name	New Jersey	Massachusetts	Pennsylvania
CARBON DIOXIDE 124-38-9	X	X	X

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**

<b>NFPA</b>	Health hazards 2	Flammability 1	Instability 0	Special hazards -
<b>HMIS</b>	Health hazards 2	Flammability 4	Physical hazards 1	Personal protection B
Chronic Hazard Star Legend	* = Chronic Health Hazard			

Prepared By Regulatory Affairs  
Issuing date 09-Oct-2017  
Revision Date 18-Jul-2024

Revision Note  
(M)SDS sections updated 1 3

**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**