Safety Data Sheet

BROADSPRED GREEN

SDS Number: 101 **Revision:** January 31, 2017

Section 1 · *IDENTIFICATION*

Product Name BROADSPRED GREEN

Other Identification Organomodified Polydimethysiloxane

Recommended Use Agricultural Industry – Spray adjuvant

Manufacturer

Company Name Custom Ag Formulators, Inc.

Address 3430 S Willow Ave, Fresno, CA 93725, United States

Telephone (800) 355-4457

Website www.4caf.com

Emergency Contacts Custom Ag Formulators, Inc. (559) 435-1052

CHEMTREC (800) 424-9300 (Domestic)
(703) 527-3887 (International)

Section 2 · *HAZARD(S) IDENTIFICATION*

Signal Word Warning

Label



Physical Hazards Not Classified.

Health Hazards Category 2

Reactivity Hazards Category 0

Environmental Hazards Category 0

Flammability Hazards Category 1

OSHA Defined Hazards Not Classified.

Hazard Statement H332 Harmful in inhaled
H320 Causes eye irritation

Storage Keep container closed. Store in original container.

Disposal Disposal should be made in accordance with federal, state and local regulations.

Section 3 · *COMPOSITION/INFORMATION ON INGREDIENTS*

Mixtures

Chemical Name	*Common Name & Synonyms*	*CAS Number*	*%*
Siloxane Polyalkyleneoxide Copolymer	N/A		Proprietary

Polyalkylene Oxide	N/A	Proprietary
Other components below reportable levels		N/A

Section 4 · *FIRST-AID MEASURES*

Inhalation	Remove victim from contaminated atmosphere. If breathing is labored, administer oxygen. If breathing has ceased, clear airway and start CPR. Obtain medical attention.
Skin Contact	Immediately flush with large quantities of water. Remove contaminated clothing under a safety shower. Continue rinsing. Obtain medical attention if irritation occurs.
Eye Contact	Immediately flush eyes with plenty of water for at least 15 minutes. Hold eyelids apart during irrigation to ensure thorough flushing of the entire area of the eye and lids. Remove contact lenses, if present and easy to do. Get medical attention immediately. Continue rinsing.
Ingestion	If victim is conscious, give 2 to 4 glasses of water. Do not induce vomiting. Obtain medical attention.
General Information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

Section 5 · *FIRE-FIGHTING MEASURES*

Suitable extinguishing	Use dry chemical CO2. Alcohol-resistant foam or water spray (fog).
Unsuitable extinguishing	None known.
Specific hazards arising from the chemical	In a fire or if heated, a pressure increase will occur and the container may burst.
Special protective equipment and precautions for firefighters	Firefighters must wear NIOSH/MSHA approved positive pressure self-contained breathing apparatus with full face mask and full protective clothing.
Fire-fighting equipment/instructions	Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	Carbon dioxide, Carbon Monoxide Silicon oxides. Measurements at temperatures above150° C in presence of air (oxygen) have shown that small amounts of formaldehyde are formed due to oxidative degradation.

Section 6 · *ACCIDENTAL RELEASE MEASURES*

Personal precautions, protective equipment	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding area. Keep unnecessary and unprotected

and emergency procedures	personnel from entering. Do not touch or walk through spilled materials. Do not breathe vapor or mist. Provide adequate ventilation.

Methods and materials for containment and cleaning up

Large Spills	Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13 of SDS). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.
Small Spills	Stop leak if without risk. Wipe, scrape or soak up in an inert material and put in a container for disposal. Wash walking surfaces with detergent and water to reduce slipping hazard. Wear proper protective equipment as specified in the protective equipment section.

Environmental precautions	Do not allow runoff to sewer, waterway or ground.

Section 7 · *HANDELING & STORAGE*

Precautions for safe handling	Put on appropriate personal protective equipment (see section 8 of SDS). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous.
Conditions for safe storage, including any incompatibilities	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10 of SDS) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 8 · *EXPOSURE CONTROLS/PERSONAL PROTECTION*

Occupational exposure limits	No exposure limits noted for ingredient(s).
Biological limit values	No biological exposure limits noted for the ingredient(s).
Appropriate engineering controls	Use adequate exhaust ventilation to prevent inhalation of product vapors. Keep eye wash/safety shower in areas where product is commonly handled.

Personal protective equipment (PPE)

Eye/face protection	Wear safety glasses with side shields (or goggles) and a face shield.
Skin protection	Neoprene rubber gloves and apron should be worn to prevent repeated or prolonged contact with the liquid. Wash contaminated clothing prior to reuse.

Hand protection	Wear appropriate chemical resistant gloves.
Respiratory protection	None generally required. If conditions exist where mist may be generated, a NIOSH/MSHA approved mist respirator should be worn.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations	There are no known hazards associated with this product when use as recommended, however common good industrial hygiene practices should be followed, such as washing thoroughly after handling and before eating or drinking.

Section 9 · *PHYSICAL & CHEMICAL PROPERTIES*

Appearance	Pale yellow liquid.
Odor	Polyether
Odor threshold	N/A
pH	8.36
Melting point/freezing point	-50°C; -58°F
Initial boiling point and boiling range	> 350°F
Flash point	143°C; 289°F
Evaporation rate	< 1(n-Butyl acetate-1)
Flammability (solid, gas)	N/A
Upper/lower flammability or explosive limits	
Flammability limit - lower (%)	N/A
Flammability limit - upper (%)	N/A
Explosive limit - lower (%)	N/A
Explosive limit - upper (%)	N/A
Vapor density	N/A
Relative density	8.0 lbs/gal
Solubility(ies)	
Solubility (water)	100%
Partition coefficient (n-octanol/water)	N/A
Auto-ignition temperature	N/A
Decomposition temperature	N/A
Viscosity	N/A

Section 10 · *STABILITY & REACTIVITY*

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions
Possibility of hazardous reactions	N/A
Conditions to avoid	Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents
Hazardous decomposition products	Carbon dioxide, Carbon Monoxide Silicon oxides. Measurements at temperatures above150° C in presence of air (oxygen) have shown that small amounts of formaldehyde are formed due to oxidative degradation.

Section 11 · *TOXICOLOGICAL INFORMATION*

Information on likely routes of exposure:

Ingestion	Not determined.
Inhalation	Not determined.
Skin Contact	Not determined.
Eye Contact	Not determined.

Symptoms related to the physical, chemical and toxicological characteristics	Not determined.

Information on toxicological effects:

Acute toxicity	Not determined.
Skin corrosion/irritation	Not determined.
Serious eye damage/eye irritation	Moderate to severe irritation.

Respiratory or skin sensitization

Respiratory sensitization	Not available.
Skin sensitization	Brief contact is not irritating. Prolonged contact may result in minor irritation, transient local redness or swelling.
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic
Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.
OSHA Specifically Regulated Substances	Not listed.
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects
Specific target organ toxicity - single exposure	Not classified.
Specific target organ toxicity - repeated exposure	Not classified.
Aspiration hazard	Not available.

Section 12 · *ECOLOGICAL INFORMATION*

Ecotoxicity	Not determined
Persistence and degradability	No data is available on the degradability of this product
Bio accumulative potential	Not available
Mobility in soil	No data available.

Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

Section 13 · *DISPOSAL CONSIDERATION*

Disposal instructions	Consult federal, state and local regulations for disposal requirements.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

Section 14 · *TRANSPORT INFORMATION*

General	Not DOT regulated in domestic (USA ground) transportation in package sizes less than 3,550 lbs (317 gallons); 1,610 kg (1,200 liters). The DOT transportation information below is for shipments with package sizes equal to or exceeding this value. IMDG Regulated Marine Pollutant.

DOT - Basic shipping requirements:

UN number	UN3082
DOT Label	9
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID N.O.S (Polyalkyleneoxide modified Heptmethyltrisiloxane)
Hazard class	9
Packing group	III

IMGD - Basic shipping requirements:

UN number	UN3082
IMGD Label	9
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID N.O.S (Polyalkyleneoxide modified Heptmethyltrisiloxane)
Hazard class	9
Packing group	III
EMS NO	F-A; S-F

IATA - Basic shipping requirements:

UN number	UN3082
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID N.O.S (Polyalkyleneoxide modified Heptmethyltrisiloxane)
Hazard class	9
Packing group	III
OCAP	9MI

Environmental hazards

Marine pollutant	No
Special precautions	Read safety instructions, SDS and emergency procedures before handling.

Section 15 · *REGULATORY INFORMATION*

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List. This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Proposition 65 (CA) Warning: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)		Not regulated
CERCLA Hazardous Substance List (40 CFR 302.4)		
	Reportable Quantity	Not applicable
SARA 304 Emergency release notification		Not regulated
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)		Not listed
Superfund Amendments and Reauthorization Act of 1986 (SARA)		
Hazard categories	Immediate Hazard	Yes
	Delayed Hazard	No
	Fire Hazard	No
	Pressure Hazard	No
	Reactivity Hazard	No
SARA 302 Extremely hazardous substance		Not listed
SARA 311/312 Hazardous chemical		No

Section 16 · *OTHER INFORMATION*

Issue date January 31, 2017

Disclaimer The above information is based on data of which the manufacturer is aware and is believed to be correct as of the date hereon. Since the information contained herein may be applied under conditions beyond the manufacturer's control and which may be unfamiliar and since data made available subsequent to the date hereof may suggest modifications of the information, the manufacturer does not assume any responsibility for the results of its use. This information is furnished upon the condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.