MATERIAL SAFETY DATA SHEET

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Chemical Product
PROLEC® G
Common Name: Acidifying Lecithin Based Surfactant Blend.
Chemical Description: Propionic Acid and Surfactant Blend.
TSCA/CAS No.: This product is a mixture — there is no specific CAS number.

Manufactured For
Brandt Consolidated, Inc.
2935 So. Koke Mill Road
Springfield, IL 62711

Emergency Phone Numbers
CHEMTREC (24-Hour Emergency Number): (800) 424-9300
EPA National Response Center: (800) 424-8802

SECTION 2. HAZARDOUS INGREDIENTS

CHEMICAL	CAS NO.	%	TLV OR PEL	RQ (lbs)
Fatty acid, ethoxylate	9006-28-4	10.0	N.A.	N.P.
Ethyl Formic Acid	79-09-4	35.0	30 mg/m^3 TWA	5,000
Lecithin	8002-43-5	35.0	N.A.	N.P.

SECTION 3. EMERGENCY/HAZARDS OVERVIEW

Brown oily fluid, characteristic organic acid aroma. Corrosive to eyes. Causes irreversible eye damage. May cause skin irritation. Vapors or mist in excess of permissible concentrations such as generated from spraying or heating the product may cause irritation of the nose and throat, headache, nausea and drowsiness. Ingestion may cause abdominal discomfort. Soybean derived product, if sensitive to soy products avoid usage. Not D.O.T. regulated.

HEALTH: 3 REACTIVITY: 0 FLAMMABILITY: 2 ENVIRONMENT: 0
(0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme)

SECTION 4. FIRST AID

General Advice Show this safety data sheet to the doctor in attendance. When symptoms persist or in all cases of doubt seek medical advice. May produce an allergic reaction.

Eye Contact Call a physician immediately. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eyes wide open while rinsing.

Skin Contact Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. If skin irritation persists, call a physician.

Inhalation Move to fresh air in case of accidental inhalation of vapors. If symptoms persist, call a physician.

Ingestion Call a physician immediately. Clean mouth with water and afterwards drink plenty of water. Drink 1 or 2 glasses of water. Never give anything by mouth to an unconscious person. Do not induce vomiting without medical advice.

Notes to Physician Treat symptomatically.

Protection of First-aiders Use personal protective equipment.

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SECTION 5. FIRE AND EXPLOSION HAZARDS

Flammable Properties Flammable liquid. Beware of vapors accumulating to form explosive concentrations. Vapors may cause flash fire or explosion.

Suitable Extinguishing Media Dry chemical. Carbon dioxide (CO2). Alcohol-resistant foam. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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

Hazardous Combustion Products Carbon dioxide (CO2) , Carbon monoxide (CO), Aldehydes, Ketones.

Explosion Data

Sensitivity to mechanical impact No information available.

Sensitivity to static discharge Yes

Specific Hazards Arising from the Chemical Risk of ignition. Keep product and empty container away from heat and sources of ignition.

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.

NFPA

Health 3 **Stability and Reactivity 0** **Flammability 2** **Physical Hazard -**

SECTION 6. SPILLS AND LEAKS

Containment: Prevent product spillage from entering waterways.

Clean Up: Contain spill if possible with absorbent materials such as clay or soil. Remove to approved landfill according to federal, state or local regulations. Avoid skin and eye contact. Wear protective equipment during clean up.

Evacuation: Not necessary.

SECTION 7. STORAGE AND HANDLING

Storage: Store product to prevent contamination from any source. Keep containers closed. Avoid temperature extremes during storage.

Transfer Equipment: Transfer product using chemical-resistant plastic tanks, pumps, valves, etc.

Work/Hygienic Practices: Keep out of reach of children. Corrosive to eyes. Causes irreversible eye damage. Do not get in eyes or on skin or clothing. Wear protective eyewear (goggles or face shield). Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse.

SECTION 8. PERSONAL PROTECTIVE EQUIPMENT

Exposure Limits

Components with workplace control parameters

Chemical Name	ACGIH	TLV	OSHA PEL	MEXICO	NIOSH	OHSA
Propionic acid	TWA: 10 ppm				STEL: 15 ppm STEL: 45 mg/m3 TWA: 10 ppm TWA: 30 mg/m3	

Legend

ACGIH TLV - American Conference of Governmental Industrial Hygienists Threshold Limit Values. NIOSH - National Institute of Occupational Safety and Health. TWA - Time weighted average. STEL - Short Term Exposure Limit.

Engineering Measures Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Eye/face Protection.	Tightly fitting safety goggles. Face-shield.
Skin and Body Protection	Chemical resistant apron. Impervious clothing. Impervious gloves. Antistatic boots.
Respiratory Protection	In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.
General Hygiene Considerations	Handle in accordance with good industrial hygiene and safety practice. When using, do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing.

SECTION 9. PHYSICAL AND CHEMICAL DATA

Appearance:	Brown oily fluid.
Odor:	Pungent.
pH:	3.0 (1% solution)
Vapor Pressure:	Not available.
Vapor Density (Air=1):	Not available.
Flash Point	56°C / 133°F *Closed Cup*
Boiling Point:	Not available.
Freezing Point:	Not available.
Water Solubility:	Not available.
Density:	8.59 lbs./gal.
Evaporation Rate:	Not available.
Viscosity:	43 cps (25ºC, 30 rpm)
% Volatile:	Not available.
Octanol/Water Partition Coefficient:	Not available.
Saturated Vapor Concentration:	Not available.

SECTION 10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal conditions. Hazardous polymerization does not occur.
Conditions to Avoid	Keep away from open flames, hot surfaces and sources of ignition, Extremes of temperature, Incompatible products.
Incompatible Materials	Strong acids. Strong bases. Strong oxidizing agents.
Hazardous Decomposition Products	Thermal decomposition can lead to release of irritating gases and vapours. Carbon monoxide (CO). Carbon dioxide (CO_2). Aldehydes. Ketones.
Possibility of Hazardous Reactions	Hazardous polymerization does not occur.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product Information

LD50 Oral:	> 5000mg/kg (rat)
LD50 Dermal:	> 2000mg/kg (rat)
LC50 Inhalation:	>2.06 mg/L (rat)

Chronic Effects

Carcinogenicity

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen.

OSHA: (Occupational Safety & Health Administration)
Not Listed
ACGIH: (American Conference of Governmental Industrial Hygienists)
Not Listed
NTP: (National Toxicity Program)
Not Listed
Mexico: (Official Mexican Norm NOM-010-STPS-1999)
Not Listed
IARC: (International Agency for Research on Cancer)

Not Listed

Irritation	Corrosive	**Corrosivity**	Found to be corrosive to skin and eye tissue in rabbit study.
Sensitization	Not a skin sensitizer	**Neurological Effects**	No information available.
Mutagenic Effects	No information available.	**Reproductive Effects**	No information available.
Developmental Effects	No information available.	**Target Organ Effects**	Eyes, Skin, Respiratory system.

SECTION 12. ECOLOGICAL INFORMATION

Algal/Lemna Growth Inhibition:	Not available.
Toxicity to Fish and Invertebrates:	Not available.
Toxicity to Plants:	Not available.
Toxicity in Birds:	Not available.

SECTION 13. DISPOSAL

Whenever possible, as rules and regulations allow, please recycle or manage materials to minimize waste.

Waste Disposal Methods Dispose of in compliance with the laws and regulations pertaining to this product in your jurisdiction. Hazardous as supplied. The classification and disposal method of waste material resulting from this product should be determined by the user at the time of disposal.

Contaminated Packaging Empty containers should be decontaminated and taken for local recycling, recovery or waste disposal.

SECTION 14. TRANSPORTATION

USA
DOT

Proper Shipping Name	Propionic acid, solution
UN-No	UN1848
Hazard Class	8
Packing Group	III

Chemical Name	**CAS-No**	**Weight %**	**Reportable Quantity (RQ)**
Propionic acid	79-09-4	35	5000 lb. / 2270 kg.

Canada
TDG

UN-No	UN1848
Proper Shipping Name	Propionic acid, solution
Hazard Class	8
Packing Group	III

MEX

UN-No	UN1848
Proper Shipping Name	Propionic acid, solution
Hazard Class	8
Packing Group	III

ICAO

UN-No	UN1848
Proper Shipping Name	Propionic acid, solution
Hazard Class	8
Packing Group	III

IATA

UN-No	UN1848
Proper Shipping Name	Propionic acid, solution
Hazard Class	8
Packing Group	III
ERG Code	8L

IMDG/IMO

UN-No	UN1848
Proper Shipping Name	Propionic acid, solution
Hazard Class	8
Subsidiary Class	+
Packing Group	III
EmS No.	F-A, S-B

SECTION 15. REGULATORY INFORMATION

International Inventories

U.S.A. (TSCA). CANADA (DSL). EU (EINECS). Australia (AICS). Japan (ENCS/ISHL). China (IECSC). Philippines (PICCS). Korea(ECL). New Zealand (NZLoC).

Legend

TSCA - Toxic Substances Control Act, Section 8(b) Inventory (USA). DSL - Domestic Substance List (Canada). NDSL - Non Domestic Substances List (Canada). EINECS - European Inventory of Existing Commercial Chemical Substances (EU). AICS – Australian Inventory of Chemical Substances (Australia). ENCS - Existing and New Chemical Substances (Japan) / ISHL - Industrial Health and Safety Law (Japan). CHINA - Chinese Inventory of Existing Chemical Substances (China). PICCS - Inventory of Chemicals and Chemical Substances (Philippines). KECL - Korean Existing and Evaluated Chemical Substances (Korea). NZLoC - New Zealand Inventory of Chemicals (New Zealand).

USA

Federal Regulations

Ozone Depleting Substances:

No Class I or Class II material is known to be used in the manufacture of, or contained in, this product.

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product is not known to contain any chemicals which are subject to the reporting requirements of the Act or regulations contained in 40 CFR 372.

SARA 302

Section 302 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 CFR 302: In order to comply with SARA 302,

Hazardous Substances and their Reportable Quantities, spills or discharges into the environment of a hazardous substance in a quantity equal to or exceeding the RQ within any 24-hour period, must immediately be reported to the National Response Center (Phone: 800-424-8802).

Chemical Name	CAS-No	Weight %	RQ
Propionic acid	79-09-4	35	5000 lb / 2270 kg

SARA 311/312 Hazardous Categorization

Acute Health Hazard	Yes

Chronic Health Hazard	No
Fire Hazard	Yes
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

State Regulations

California Proposition 65
This product is known to contain chemicals listed under Proposition 65.
State Right-to-Know
This product contains one or more ingredient(s) which are known to be subject to disclosure in the following states: Massachusetts, Illinois. Rhode Island. New Jersey. Pennsylvania.

Canada
WHMIS Product Classification
Class E: Corrosive Material. B2 - Flammable liquid.
WHMIS Ingredient Disclosure List IDL
Component Information

Chemical Name	Weight %	WHMIS IDL	Threshold limits
Propionic acid	35	Listed	1%

(NPRI) Canadian National Pollutant Release Inventory
The product is known to contain trace levels of part 1, group 1 substances.
Component Information

Chemical Name	Weight %	NPRI
Propionic acid	35	Part 4 Substance

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.

Mexico
Mexico - Grade Serious risk, Grade 3

SECTION 16. OTHER

The information in this data sheet does not constitute any contractual warrant as to product properties and is based on the current state of knowledge. For all chemical emergencies, call CHEMTREC at (800)424-9300