

BROWN GREASE

TYPICAL ANALYSIS

Moisture	1.00%
Total Fatty Acids	90.00%
Free Fatty Acids	25-90
Impurities (I)	0.50%
Unsaponifiabiles (U)	0.50%
Total MIU	2.00%
PCB's/Pesticides	U.S. Government tolerances

Analysis are updated periodically and may vary slightly from previous versions.

Approved plant of:

- Animal Protein Producers Institute (APPI) Code of Practice Voluntary Salmonella Reduction Program
- Food & Drug Administration (FDA) Registered

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INGREDIENTS INC.

MATERIAL SAFETY DATA SHEET: BROWN GREASE

Preparer's Name: Darling Ingredients Inc. / Griffin Industries LLC

Date Prepared: July 10, 2012

Synonyms:

CAS#: N/A

Section I: General Information				
Manufacturer's Name:	Darling Ingredients Inc.	Griffin Industries LLC	Phone Numbers:	
Address:	251 O'Connor Ridge Blvd. Suite 300 Irving, TX 75038	4221 Alexandria Pike Cold Spring, KY 41076	General Information & Emergency Contact:	(515) 289-3718 (859) 472-7363
Substance:	Brown Grease			
Chemical Family:	Triglyceride			
Molecular Formula:	N/A			
Molecular Weight:	N/A			
CAS Number	N/A			

Section II: Hazardous Ingredients	
Hazardous Liquids, Solids, or Gases:	N/A
Other Contaminants:	N/A
Exposure Limits:	N/A

Section III: Physical Data	
Boiling Point:	N/D
Vapor Pressure:	N/A
Vapor Density (Air=1.0):	Exceeds 1.0
Solubility in Water:	Insoluble
Appearance and Odor:	Dark brown liquid. May begin to solidify at temperatures below 90 F (32 C)
Specific Gravity (H ₂ O = 1):	0.89 at 140 F (60 C)
Melting Point:	50 F to 105 F (15-40 C)
Percent Volatile by Volume:	<1
Evaporation Rate:	N/A
Butyl Acetate:	N/A

Section IV: Fire and Explosion Hazard Data	
Flash Point:	>500 F (260 C)
Flammable Limits:	N/A
LEL:	N/A
UEL:	N/A
Extinguishing Media:	Class B Fire dry chemical, CO ₂ , Foam
Special Fire Fighting Procedures:	DO NOT USE WATER - may spread fire by dispersing tallow. Water may be used to cool containers.
Unusual Fire and Explosion Hazards:	None Listed

Section V: Health Hazard Data	
Threshold Limit Value:	Liquid none, liquid mist 10mg/m ³ total particulate
Effects of Overexposure (Acute and Chronic):	Excessive inhalation of brown grease (BG) mist may affect respiratory system. BG mist is classified as a nuisance particulate by ACGIH. Sensitive individuals may experience dermatitis after long exposure on skin.
Emergency and First Aid Procedures:	Wash skin with soap and water. Flush eyes with water and seek medical attention if irritation occurs. If ingested in large quantities, contact a physician if discomfort is encountered.
Carcinogenicity:	None
IARC Monographs:	N/A
Signs and Symptoms of Exposure:	N/A
Medical Conditions Generally Aggravated by Exposure:	N/A

Section VI: Reactivity Data	
Unstable or Stable:	Stable
Incompatibility (Materials to Avoid):	Strong oxidizing acids may cause sufficient heat from exothermic reaction to ignite BG. Flammable hydrogen is generated by mixing with alkali metals & hydrides.
Hazardous Decomposition Products:	CO & CO ₂ during combustion
Hazardous Polymerization:	Will not occur
Conditions to avoid:	None

Section VII: Spill or Leak Procedures	
Steps to be taken in case material is released or spilled:	Spills of BG can be very slippery. Liquid may be mopped-up, soaked-up with inert absorbents, or pumped. BG may solidify at ambient temperature and can be removed with a shovel or front end loader. Wash floors with soap and hot water and rinse with hot water.
Waste disposal method:	Totally biodegradable. Dispose of recovered materials per local, state and federal regulations.
Precautions to be taken in handling and storing:	Standard precautions for handling hot liquids are recommended for liquid BG. As with all unsaturated fats/oils, some porous materials such as rags, paper, insulation, or clay when wetted with BG may undergo spontaneous combustion. Keep such wetted materials well ventilated to prevent possible heat build up.
Other precautions:	None

Section VIII: Special Protection Information	
Respiratory Protection:	N/A
Ventilation:	Ventilate confined spaces before entering
Protective Gloves:	Recommended
Eye Protection:	Recommended
Other Protective Equipment:	N/A
Work/Hygienic Practices:	After handling wash hands with soap and warm water.

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