

(Material) Safety Data Sheet



Section 1 - Product and Company Identification

Material Name	- PAM High Heat CS
Chemical Category	- PREDOMINANTLY TRIGLYCERIDES
Product Code	-
Chemical Category	- Vegetable oils
Product Description	- An oil based cooking spray. Clear to light yellow.
Product Use	- Cooking Spray. Food Product.
Manufacturer	- ConAgra Foods® 11 ConAgra Drive Omaha, NE 68102 United States www.conagrafoods.com
Telephone	
<u>Emergency</u>	- 1-800-424-9300
General	- Customer Service
Preparation Date	- 01/05/2012
Last Revision Date	- 01/05/2012

Section 2 - Hazards Identification

EMERGENCY OVERVIEW

DANGER

Causes eye irritation. Causes mild skin irritation. Extremely flammable aerosol.

Prevention	Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use.
Response	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: Gently wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.
Storage/Disposal	Protect from sunlight. Do not expose to temperatures exceeding 50C/122F.



Use only as directed. Deliberately concentrating and inhaling the contents can be harmful or fatal. For more education about product abuse, contact the Alliance for Consumer Education at www.consumered.org. Contents under pressure. Do not expose to temperatures above 120 degrees Fahrenheit. Do not puncture or incinerate can. Keep out of the reach of children. Choking hazard, cap contains small parts.

Physical Form	- Aerosol
Color	- Clear to light yellow.
Odor	- Odorless
Flash Point	- -100 F(-73.3333 C)
UEL	- 9.5 %
LEL	- 1.9 %
OSHA	- Flammable Aerosol
WHMIS	- Class B - Flammable and Combustible Materials - Division 5
	-
EU	- Extremely Flammable - F+

- R12



- GHS**
- Flammable Aerosols - Category 1, Skin Corrosion/Irritation - Category 3, Serious Eye Damage, Eye Irritation - Category 2B
- Route Of Entry**
- Inhalation, Skin, Eye
- Target Organs**
- Central Nervous System (CNS), Heart/Cardiovascular System
- Medical Conditions Aggravated by Exposure**
- None Known,



Potential Health Effects

Inhalation

Acute (Immediate)

- Possible irritant under conditions of occupational exposure. High concentrations of the propellant may cause a deficiency of oxygen with a risk of unconsciousness as well as central nervous system depression. Symptoms may include dizziness and headache. Cardiac and neurological effects can occur due to acute overdose of this product resulting in impaired memory, slurred speech, seizure, or death from cardiac arrhythmias. NOTE: Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

Chronic (Delayed)

- Under normal conditions of use, no chronic effects are expected. This product contains propane and butane which are known to cause central nervous system depression and cardiovascular symptoms.

Skin

Acute (Immediate)

- Possible irritant under conditions of occupational exposure.

Chronic (Delayed)

- Under normal conditions of use, no chronic effects are expected.

Eye

Acute (Immediate)

- Possible irritant under conditions of occupational exposure. If sprayed directly into eye severe irritation may occur.

Chronic (Delayed)

- Under normal conditions of use, no chronic effects are expected.

Ingestion

Acute (Immediate)

- No effects are expected.

Chronic (Delayed)

- No effects are expected.

See Section 12 for Ecological Information.

Section 3 - Composition/Information on Ingredients

Hazardous Components

Chemical Name	CAS	%(wt)	UN;EINECS	LD50/LC50	EU R & S Phrases	Other
Liquified petroleum gas blend	68476-86-8	10% TO 18%	UN1075, 270-705-8	NDA	F+; R12 Carc.Cat.1; R45 Muta.Cat.2; R46	NDA

Non-Hazardous Components

Chemical Name	CAS	%(wt)	UN;EINECS	LD50/LC50	EU R & S Phrases	Other
Oil - Soybean	800-122-7	70% TO 85%	NDA	NDA	NDA	NDA
Monosodium Phosphate	7558-80-7	2-8%	NDA	NDA	NDA	NDA
Calcium Carbonate	471-34-1	2-8%	NDA	NDA	Eye Irr. Cat. 2, R36; Resp. Irr. Cat 3, R37; Skin Irr. R38	NDA
Silicon Dioxide	7631-86-9	0-2%	NDA		Eye Irr. Cat. 2, R36; Resp. Irr. Cat 3, R37; Skin Irr. R38	NDA
Canola Oil	120962-03-0	70% TO 85%	NDA	NDA	NDA	NDA

See Section 11 for Toxicological Information.

Section 4 - First Aid Measures

- Inhalation** - If victim is unconscious or intentional abuse of the product is suspected, seek medical attention at once.
- Skin** - If skin irritation occurs: get medical advice/attention.
- Eye** - 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.
- Ingestion** - Not applicable, product is intended for ingestion.

See Section 2 for Potential Health Effects.

Section 5 - Fire Fighting Measures

- Extinguishing Media** - SMALL FIRES: Dry chemical, CO₂, water spray or alcohol-resistant foam.
LARGE FIRES: Dry chemical, CO₂, alcohol-resistant foam or water spray.
- Unsuitable Extinguishing Media** - None known.
- Firefighting Procedures** - Keep unauthorized personnel away.
As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions.
Fire fighters should wear complete protective clothing including self-contained breathing apparatus.
FIRE INVOLVING TANKS OR CAR/TRAILER LOADS: For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn.
FIRE INVOLVING TANKS OR CAR/TRAILER LOADS: Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.
FIRE INVOLVING TANKS AND CAR/TRAILER LOADS: ALWAYS stay away from tanks engulfed in fire.
LARGE FIRES: Dike fire-control water for later disposal.
LARGE FIRES: Move containers from fire area if you can do it without risk.
- Unusual Fire and Explosion Hazards** - HIGHLY FLAMMABLE: Will be easily ignited by heat, sparks or flames.
Oily rags may appear to spontaneously combust with very minimal sources of ignition. Thus, caution is required when such rags are stored and even away from any apparent ignition source. Containers generate pressure when heated and could cause bursting and dangerous propelling.
- Hazardous Combustion Products** - Oxides of carbon.
- Protection of Firefighters** - Wear positive pressure self-contained breathing apparatus (SCBA). Structural firefighters' protective clothing will only provide limited protection.
- Flash Point** - -100 F(-73.3333 C)

Explosion Limits

- Upper** - 9.5
- Lower** - 1.9
- NFPA Aerosol Classification** - Level 3

Section 6 - Accidental Release Measures

- Personal Precautions** - Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate enclosed areas.
- Emergency Procedures** - ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions.
- Environmental Precautions** - Prevent entry into waterways, sewers, basements or confined areas.
- Containment/Clean-up Measures** - Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers. Use clean non-sparking tools to collect absorbed material.
- Prohibited Materials** - None known.

Section 7 - Handling and Storage

- Handling** - Do not use in areas without adequate ventilation. Take precaution to prevent slips and falls in and around areas of repeated use where drift of aerosolized oil may occur. Keep away from heat and sparks. In case of accidental puncturing with forklift, shut off lift and ignition sources and ventilate area.
- Storage** - Store below 120 F. Store in a cool/low-temperature, well-ventilated place away from heat and ignition sources.

Section 8 - Exposure Controls/Personal Protection**Personal Protective Equipment**

- Respiratory** - None required for normal handling.
- Eye/Face** - None required for normal handling.
- Hands** - None required for normal handling.
- Skin/Body** - None required for normal handling.
- Additional PPE** - Wear slip resistant shoes where oil mist accumulates.
- Engineering Measures/Controls** - Use adequate ventilation to remove vapors (fumes, dust, etc). Use local exhaust for small enclosed work areas.

Section 9 - Physical and Chemical Properties

- Physical Form** - Aerosol
- Appearance/Description** - Clear to light yellow liquid with no odor.

Color: Clear to light yellow.		Odor: Odorless	
Taste: Light oily taste. No data available.		Odor Threshold: NDA	
Boiling Point:	NDA	Vapor Pressure:	3397 mmHg (torr)

Melting Point:	NDA	Vapor Density:	> 1 Air=1
Specific Gravity:	0.823	Evaporation Rate:	> 1 n-Butyl Acetate = 1
Density:	6.8679 lbs/gal	VOC (Wt.):	NDA
Bulk Density:	NDA	VOC (Vol.):	NDA
pH:	NDA	Volatiles (Wt.):	NDA
Water Solubility:	Slightly Soluble	Volatiles (Vol.):	NDA
Solvent Solubility:	NDA	Flash Point:	-100 F(-73.3333 C)
Viscosity:	NDA	Flash Point Test Type:	NDA
Half-Life:	NDA	UEL:	9.5 %
Octanol/Water Partition coefficient:	NDA	LEL:	1.9 %
Coefficient of water/oil distribution:	NDA	Autoignition:	NDA
Bioaccumulation Factor:	NDA	Bioconcentration Factor:	NDA
Biochemical Oxygen Demand BOD/BOD5:	NDA	Chemical Oxygen Demand:	NDA
Persistence:	NDA	Degradation:	NDA

Section 10 - Stability and Reactivity

Stability	- Stable under normal temperatures and pressures.
Hazardous Polymerization	- Hazardous polymerization will not occur.
Conditions to Avoid	- Store below 120 F.
Incompatible Materials	- Incompatible Materials: Easily oxidizable materials
Hazardous Decomposition Products	- Oxides of carbon.

Section 11 - Toxicological Information

Material Information	- No data available on the material as a whole.
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Component Name	Concentration	CAS	Data
Soy Lecithin	2% TO 8%	8002-43-5	Acute Toxicity: ; orl-rat LD :>8 mL/kg
Liquified petroleum gas blend	10-18%	68476-86-8	LC50 rat Dose: 658 mg/l
Monosodium Phosphate	7558-80-7	2-8%	Oral Rat LD50: 8290 mg/kg
Calcium Carbonate	471-34-1	2-8%	Acute oral toxicity (LD50): 6450 mg/kg [Rat].

Section 12 - Ecological Information

Ecological Fate	- Product has not been studied as distributed.
Persistence/Degradability	- Product has not been studied as distributed.
Bioaccumulation Potential	- Product has not been studied as distributed.
Mobility in Soil	- Product has not been studied as distributed.

Section 13 - Disposal Considerations

Product	- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.
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Section 14 - Transportation Information

DOT - United States - Department of Transportation

Shipping Name: Aerosols (Contains Isobutane)

Hazard Class: 2.1

ID Number: UN1950

Section 15 - Regulatory Information

SARA Hazard Classifications - Acute, Fire, Pressure(Sudden Release of)

Inventory				
Component	CAS	Canada DSL	Canada NDSL	TSCA
Oil - Soybean	800-122-7	Yes	No	Yes
Soy Lecithin	8002-43-5	Yes	No	Yes
Liquified petroleum gas blend	68476-86-8	Yes	No	Yes

Canada

Labor

Canada - WHMIS - Classifications of Substances

- Oil - Soybean	800-122-7	70% TO 85%	Not Listed
- Liquified petroleum gas blend	68476-86-8	10% TO 18%	Not Listed

Canada - WHMIS - Ingredient Disclosure List

- Oil - Soybean	800-122-7	70% TO 85%	Not Listed
- Liquified petroleum gas blend	68476-86-8	10% TO 18%	Not Listed

Mexico

Other

Mexico - Hazard Classifications

- Oil - Soybean	800-122-7	70% TO 85%	Not Listed
- Liquified petroleum gas blend	68476-86-8	10% TO 18%	Class = 2.1

Mexico - Regulated Substances

- Oil - Soybean	800-122-7	70% TO 85%	Not Listed
- Liquified petroleum gas blend	68476-86-8	10% TO 18%	UN1075

United States

Environment

U.S. - CAA (Clean Air Act) - Accidental Release Prevention - Flammable Substances

- Oil - Soybean	800-122-7	70% TO 85%	Not Listed
- Liquified petroleum gas blend	68476-86-8	10% TO 18%	Not Listed

Other**U.S. - FDA - Food Additives Generally Recognized as Safe (GRAS)**

- Oil - Soybean	800-122-7	70% TO 85%	21 CFR 184.1555
- Soy Lecithin	8002-43-5	2% TO 8%	21 CFR 184.1400
- Liquified petroleum gas blend	68476-86-8	10% TO 18%	Not Listed

U.S. - FDA - Substances Prohibited from Use in Human Food

- Oil - Soybean	800-122-7	70% TO 85%	Not Listed
- Soy Lecithin	8002-43-5	2% TO 8%	Not Listed
- Liquified petroleum gas blend	68476-86-8	10% TO 18%	Not Listed

Section 16 - Other Information

- Last Revision Date** - 01/05/2012
- Preparation Date** - 01/05/2012
- Disclaimer/Statement of Liability** - The following MSDSs are provided as a courtesy to ConAgra Foods customers. The information provided herein is provided in good faith but no warranty, expressed or implied, regarding its correctness or accuracy is made. Since the conditions for use, handling, storage, and disposal of this product are beyond ConAgra Foods' control, it is the responsibility of the user both to determine safe conditions for use of this product and to assume liability for loss, damage, or expense arising out of the improper use of this product. No warranty, expressed or implied, regarding the product described herein shall be created by or inferred from any statement or omission in this MSDS. ConAgra Foods disclaims all liability for your use and reliance on any MSDS. Various Governmental agencies (e.g. DOT, OSHA, EPA, FDA) may have specific regulations concerning the transportation, handling, storage, use, or disposal of this product which may not be reflected in this MSDS. The user should review these regulations to ensure full compliance.