

(Material) Safety Data Sheet



Section 1 - Product and Company Identification

Material Name	▪ PAM Original
Chemical Category	▪ PREDOMINANTLY TRIGLYCERIDES
Product Code	▪ 6414403032/ML 1-99
Chemical Category	▪ Nuisance particulates
Product Description	▪ An oil based cooking spray. Clear to light yellow.
Product Use	▪ Cooking Spray. Food Product.
Manufacturer	▪ ConAgra Foods® 7350 World Communication Dr. Omaha, NE 68122 United States www.conagrafoods.com
Telephone	
<u>Emergency</u>	▪ 1-800-424-9300 - CHEMTREC
General	▪ Customer Service - Call your ConAgra Foods' Customer Service Representative
Preparation Date	▪ 8/3/2010
Last Revision Date	▪ 8/3/2010

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 Farenheit. Do not puncture or incinerate can. Keep out of the reach of children.
Choking hazard, cap contains small parts.**

Physical Form

Color

Odor

Flash Point

UEL

LEL

OSHA

WHMIS

- Aerosol
- Clear to light yellow.
- Odorless
- -100 F(-73.3333 C)
- 9.5 %
- 1.9 %
- Flammable Aerosol
- 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

Target Organs

Medical Conditions

Aggravated by Exposure

- Inhalation, Skin, Eye
- Central Nervous System (CNS), Heart/Cardiovascular System
- None Known,

NFPA:



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)

Chronic (Delayed)

- Possible irritant under conditions of occupational exposure.
- Under normal conditions of use, no chronic effects are expected.

Eye

Acute (Immediate)

Chronic (Delayed)

- Possible irritant under conditions of occupational exposure. If sprayed directly into eye severe irritation may occur.
- 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	%(weight)	UN;EINECS	LD50/LC50	EU Classification & R Phrases	Other
Petroleum gas (liquefied)	68476-85-7	10% TO 18%	270-704-2	NDA	F+; R12 Carc.Cat.1; R45 Muta.Cat.2; R46	NDA
Propane	74-98-6	> 7%	UN1978, 200-827-9	NDA	F+; R12	NDA
Propane, 2-methyl-	75-28-5	> 7%	UN1969, 200-857-2	Inhalation-Rat LC50: =57 pph/15 Minute(s)	F+; R12	NDA
Butane	106-97-8	< 1%	UN1011, 203-448-7	Inhalation-Rat LC50: =658 g/m ³ /4 Hour(s)	F+; R12	NDA
Non-Hazardous Components						
Chemical Name	CAS	%(weight)	UN;EINECS	LD50/LC50	EU Classification & R Phrases	Other
Canola Oil	120962-03-0	70% TO 85%			NDA	NDA
Soy Lecithin	8002-43-5	2% TO 8%	232-307-2	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

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.

Exposure Limits/Guidelines						
	Result	ACGIH	Mexico	NIOSH	OSHA	United States - California
PAM Original	TWAs	10 mg/m ³ TWA (inhalable particles, recommended); 3 mg/m ³ TWA (respirable particles, recommended) <i>as Particulates not otherwise classified (PNOC)</i>	Not established	Not established	15 mg/m ³ TWA (total dust); 5 mg/m ³ TWA (respirable fraction) <i>as Particulates not otherwise classified (PNOC)</i>	10 mg/m ³ PEL (total dust); 5 mg/m ³ PEL (respirable fraction) <i>as Particulates not otherwise classified (PNOC)</i>
Butane (106-97-8)	TWAs	1000 ppm TWA	800 ppm TWA; 1900 mg/m ³ TWA	800 ppm TWA; 1900 mg/m ³ TWA	Not established	800 ppm PEL; 1900 mg/m ³ PEL
Propane (74-98-6)	TWAs	1000 ppm TWA	Not established	1000 ppm TWA; 1800 mg/m ³ TWA	1000 ppm TWA; 1800 mg/m ³ TWA	1000 ppm PEL; 1800 mg/m ³ PEL
Propane, 2-methyl- (75-28-5)	TWAs	1000 ppm TWA	Not established	800 ppm TWA; 1900 mg/m ³ TWA	Not established	Not established
Petroleum gas (liquefied) (68476-85-7)	STELs	Not established	1250 ppm STEL; 2250 mg/m ³ STEL	Not established	Not established	Not established
	TWAs	1000 ppm TWA	1000 ppm TWA; 1800 mg/m ³ TWA	1000 ppm TWA; 1800 mg/m ³ TWA	1000 ppm TWA; 1800 mg/m ³ TWA	1000 ppm PEL; 1800 mg/m ³ PEL

Exposure Limits Supplemental ACGIH

- Propane, 2-methyl- (75-28-5): **TLV Basis - Critical Effects:** (cardiac sensitization; CNS impairment)
- Petroleum gas (liquefied) (68476-85-7): **TLV Basis - Critical Effects:** (cardiac sensitization; CNS impairment)
- Propane (74-98-6): **TLV Basis - Critical Effects:** (cardiac sensitization; CNS impairment)
- Butane (106-97-8): **TLV Basis - Critical Effects:** (cardiac sensitization; CNS impairment)

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
Water Solubility:	Slightly Soluble	Volatiles (Wt.):	NDA
Solvent Solubility:	NDA	Volatiles (Vol.):	NDA
Viscosity:	NDA	Flash Point:	-100 F(-73.3333 C)
Half-Life:	NDA	Flash Point Test Type:	NDA
Octanol/Water Partition coefficient:	NDA	UEL:	9.5 %
Coefficient of Water:	NDA	LEL:	1.9 %
Bioaccumulation Factor:	NDA	Autoignition:	NDA
pH:	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.

Component Name	Concentration	CAS	Data
Soy Lecithin	2% TO 8%	8002-43-5	Acute Toxicity: orl-rat LD :>8 mL/kg
Propane, 2-methyl-	> 7%	75-28-5	Acute Toxicity: ihl-rat LC50:658000 mg/m3/4H
Butane	< 1%	106-97-8	Acute Toxicity: ihl-rat LC50:658 gm/m3/4H

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.

Section 14 - Transportation Information

DOT Special Permit DOT SP 11458. Material is packaged as a consumer product(ORM-D).

DOT - United States - Department of Transportation

Shipping Name: Consumer commodity
Hazard Class: ORM-D

TDG - Canada - Transport of Dangerous Goods

Shipping Name: AEROSOLS, flammable
ID Number: UN1950
Hazard Class: 2.1
Labeling Class: 2.1
Marine Pollutant: Potential Marine Pollutant
Passenger Carrying Road Vehicle or Passenger Carrying Railway Vehicle Index: 75.00

Section 15 - Regulatory Information

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

Inventory				
Component	CAS	Canada DSL	Canada NDSL	TSCA
Canola Oil	120962-03-0	Yes	No	Yes
Soy Lecithin	8002-43-5	Yes	No	Yes
Petroleum gas (liquefied)	68476-85-7	Yes	No	Yes
Propane	74-98-6	Yes	No	Yes
Propane, 2-methyl-	75-28-5	Yes	No	Yes
Butane	106-97-8	Yes	No	Yes

Canada

Labor

Canada - WHMIS - Classifications of Substances

- Propane, 2-methyl- 75-28-5 > 7% A, B1
- Petroleum gas (liquefied) 68476-85-7 10% TO 18% A, B1
- Propane 74-98-6 > 7% A, B1
- Butane 106-97-8 < 1% A, B1

Canada - WHMIS - Ingredient Disclosure List

- Butane 106-97-8 < 1% 1 %

Mexico

Other

Mexico - Hazard Classifications

- Propane, 2-methyl- 75-28-5 > 7% Class = 2.1
- Propane 74-98-6 > 7% Class = 2.1
- Butane 106-97-8 < 1% Class = 2.1

Mexico - Regulated Substances

- Propane, 2-methyl- 75-28-5 > 7% UN1969
- Propane 74-98-6 > 7% UN1978
- Butane 106-97-8 < 1% UN1011

United States

Environment

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

- Propane, 2-methyl- 75-28-5 > 7% 10000 lbs threshold quantity
- Propane 74-98-6 > 7% 10000 lbs threshold quantity
- Butane 106-97-8 < 1% 10000 lbs threshold quantity

Other

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

None Listed

Section 16 - Other Information

Prepared By
Preparation Date
Last Revision Date
Disclaimer/Statement of Liability

- Plagge, Bogen, Mundy
- 8/3/2010
- 8/3/2010
- 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.