# Nu-Calgon

#### MATERIAL SAFETY DATA SHEET

#### 1. Product and Company Identification

Product Name A/C EasySeal (4050-06)

CAS # Mixture

Product use Leak Sealant for refrigeration and AC systems

Manufacturer Nu-Calgon
2008 Altom Court

St. Louis, MO 63146 US

Phone: 314-469-7000 / 800-554-5499

Emergency Phone: 1-800-424-9300 (CHEMTREC)

#### 2. Hazards Identification

Emergency overview DANGER

EYE IRRITANT. Skin irritation possible with prolonged exposure.

Extremely Flammable Aerosol.

Contents under pressure.

Containers may explode when heated.

Potential short term health effects

**Routes of exposure** Eye, Skin contact, Inhalation, Ingestion.

Eyes Contact with liquid or mist will irritate the eyes.

Skin Contact with liquid may cause skin irritation.

Inhalation Excessive intentional inhalation may cause respiratory tract irritation and central nervous

system effects (headache, dizziness).

**Ingestion** Not a normal route of exposure. May cause stomach distress, nausea or vomiting.

Target organs Blood. Eyes. Liver. Respiratory system. Skin.

Chronic effects Prolonged or repeated exposure can cause drying, defatting and dermatitis.

Signs and symptoms Symptoms may include redness, edema, drying, defatting and cracking of the skin.

Symptoms of overexposure may be headache, dizziness, tiredness, nausea and

vomiting.

OSHA Regulatory Status

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

Potential environmental effects See section 12.

# 3. Composition / Information on Ingredients

Ingredient(s)	CAS#	Percent
Butane	106-97-8	10 - 30
Propane	74-98-6	10 - 30
Ethanol	64-17-5	1 - 5

#### 4. First Aid Measures

First aid procedures

Eye contact Immediately flush with cool water. Remove contact lenses, if applicable, and continue

flushing for 15 minutes. Obtain medical attention immediately.

**Skin contact** Flush with cool water. Wash with soap and water. Obtain medical attention if irritation

persists.

Inhalation If symptoms develop, move victim to fresh air. If symptoms persist, obtain medical

attention. If breathing has stopped, trained personnel should administer CPR

immediately.

**Ingestion** Do not induce vomiting. Never give anything by mouth if victim is unconscious, or is

convulsing. Obtain medical attention.

Notes to physician Symptoms may be delayed.

Do not puncture or incinerate container. Keep away from sources of ignition. No smoking. If you feel unwell, seek medical advice (show the label where possible). 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. Avoid contact with eves and skin. Keep out of reach of children.

## 5. Fire Fighting Measures

Flammable properties

Flammable aerosol by flame projection test.

Extinguishing media

Carbon dioxide. Dry chemical. Foam. Water Fog. Suitable extinguishing media

Unsuitable extinguishing media

Not available

Protection of firefighters

Specific hazards arising from

the chemical

firefighters

Contents under pressure. Pressurized container may explode when exposed to heat or flame. Cool containers with flooding quantities of water until well after fire is out.

Firefighters should wear full protective clothing including self contained breathing

apparatus.

Hazardous combustion products

Protective equipment for

**Explosion data** 

May include and are not limited to: Oxides of silicon. Oxides of carbon.

Sensitivity to mechanical impact Not available Not available Sensitivity to static discharge

#### 6. Accidental Release Measures

Keep unnecessary personnel away. Do not touch or walk through spilled material. Do not Personal precautions

touch damaged containers or spilled material unless wearing appropriate protective

clothing. Keep people away from and upwind of spill/leak.

**Environmental precautions** 

Methods for containment

Prevent further leakage or spillage if safe to do so. Do not contaminate water.

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area).

Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements

or confined areas.

Before attempting clean up, refer to hazard data given above. Remove sources of Methods for cleaning up

ignition. Although the chance of a significant spill or leak is unlikely in aerosol containers, in the event of such an occurrence, absorb spilled material with a

non-flammable absorbent such as sand or vermiculite.

# 7. Handling and Storage

Handling Use good industrial hygiene practices in handling this material.

Pressurized container: Do not pierce or burn, even after use.

Use only with adequate ventilation. When using do not eat or drink. Avoid contact with skin and clothing.

Avoid contact with eves. Keep container tightly closed. Wash thoroughly after handling.

Keep out of reach of children. Storage

Keep away from heat, open flames or other sources of ignition.

Protect from sunlight.

Do not expose to temperatures exceeding 122°F (50°C).

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## 8. Exposure Controls / Personal Protection

Exposure limits		
Ingredient(s)	Exposure Limits	
Butane	ACGIH-TLV	
	TWA: 1000 ppm	
	OSHA-PEL	
	Not established	
Ethanol	ACGIH-TLV	
	TWA: 1000 ppm	
	STEL: 1000 ppm	
	OSHA-PEL	
	TWA: 1000 ppm	
Propane	ACGIH-TLV	
	TWA: 1000 ppm	
	OSHA-PEL	
	TWA: 1000 ppm	

**Engineering controls** General ventilation normally adequate.

Personal protective equipment

**Eye / face protection** Wear safety glasses with side shields.

**Hand protection** Rubber gloves. Confirm with a reputable supplier first.

**Skin and body protection** As required by employer code.

**Respiratory protection** Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice.

When using do not eat or drink.

Wash hands before breaks and immediately after handling the product.

#### 9. Physical and Chemical Properties

Appearance Compressed liquefied gas

ColorColorlessFormSprayOdorAmineOdor thresholdNot available

Physical state Gas

pHNot availableMelting pointNot availableFreezing pointNot availableBoiling point143 °F (61.66 °C)Pour pointNot available

Evaporation rate <

Flash point 132.23 °F (55.68 °C) Tag Closed Cup

Auto-ignition temperature Not available Flammability limits in air, lower, % Not available

by volume

Flammability limits in air, upper, % No

by volume

Not available

Vapor pressure 116.63 HPa
Vapor density > 1 (Air=1)
Specific gravity 9.1

Octanol/water coefficient

Solubility (H2O)

VOC (Weight %)

Viscosity

Not available

Not available

Not available

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Percent volatile Not available

### 10. Stability and Reactivity

**Reactivity** This product may react with strong oxidizing agents.

Possibility of hazardous reactions Hazardous polymerization does not occur.

Chemical stability Stable under recommended storage conditions.

Conditions to avoid Aerosol containers are unstable at temperatures above 49°C (120.2°F).

Do not mix with other chemicals.

Incompatible materials Caustics. Acids. Oxidizers.

Hazardous decomposition products Oxides of silicon. May include and are not limited to: Oxides of carbon.

# 11. Toxicological Information

Component analysis - LC50

Ingredient(s) LC50

Butane Not available

Ethanol 31623 ppm rat

Propane Not available

Component analysis - Oral LD50

Ingredient(s) LD50

Butane Not available
Ethanol 3450 mg/kg mouse; 7060 mg/kg rat

Propane Not available

Effects of acute exposure

Eye Contact with liquid or mist will irritate the eyes.

Skin Contact with liquid may cause skin irritation.

Inhalation Excessive intentional inhalation may cause respiratory tract irritation and central nervous

system effects (headache, dizziness).

Ingestion Not a normal route of exposure. May cause stomach distress, nausea or vomiting.

SensitizationNon-hazardous by WHMIS/OSHA criteria.Chronic effectsNon-hazardous by WHMIS/OSHA criteria.

Carcinogenicity See below ACGIH - Threshold Limit Values - Carcinogens

Ethanol 64-17-5 A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans

MutagenicityNon-hazardous by WHMIS/OSHA criteria.Reproductive effectsNon-hazardous by WHMIS/OSHA criteria.TeratogenicityNon-hazardous by WHMIS/OSHA criteria.

Name of Toxicologically Synergistic Not available

**Products** 

## 12. Ecological Information

Ecotoxicity Components of this product have been identified as having potential environmental

oncerns.

**Ecotoxicity - Freshwater Fish - Acute Toxicity Data** 

Ethanol 64-17-5 96 Hr LC50 Oncorhynchus mykiss: 12.0 - 16.0 mL/L [static]; 96 Hr LC50 Pimephales

promelas: >100 mg/L [static]; 96 Hr LC50 Pimephales promelas: 13400 - 15100 mg/L

[flow-through]

**Ecotoxicity - Water Flea - Acute Toxicity Data** 

Ethanol 64-17-5 48 Hr LC50 Daphnia magna: 9268 - 14221 mg/L; 24 Hr EC50 Daphnia magna: 10800

mg/L; 48 Hr EC50 Daphnia magna: 2 mg/L [Static]

Persistence / degradability Not available

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Bioaccumulation / accumulation Not available
Mobility in environmental media Not available
Environmental effects Not available
Aquatic toxicity Not available
Partition coefficient Not available
Chemical fate information Not available
Other adverse effects Not available

# 13. Disposal Considerations

**Disposal instructions** 

Dispose in accordance with all applicable regulations.

Waste from residues / unused

products

Not available

Contaminated packaging

Not available

# 14. Transport Information

#### **U.S. Department of Transportation (DOT)**

Consumer Commodity ORM-D or Limited Quantity / UN1950

Transportation of Dangerous Goods (TDG - Canada)

Consumer Commodity

# 15. Regulatory Information

Canadian federal regulations

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

Canada - CEPA - High Priority Chemicals as Identified by DSL Categorization

Butane 106-97-8 Batch 4, published November 17, 2007

Canada - WHMIS - Ingredient Disclosure List

Butane 106-97 -8 1 % Ethanol 64-17- 5 0.1 %

WHMIS status Controlled

WHMIS classification Class A - Compressed Gas, Class B - Division 5 - Flammable Aerosol, Class D - Division

2B

WHMIS labeling







Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous

chemical

Yes

No

**US Federal regulations**This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

**CERCLA (Superfund) reportable quantity** 

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

Delayed Hazard - Yes Fire Hazard - Yes Pressure Hazard - Yes Reactivity Hazard - No

Section 302 extremely

hazardous substance

Section 311 hazardous chemical Yes

Clean Air Act (CAA) Not available
Clean Water Act (CWA) Not available

#### U.S. - California - 8 CCR Section 339 - Director's List of Hazardous Substances

Present

U.S. - Massachusetts - Right To Know List

Butane 106-97-8 Present Ethanol 64-17-5 Teratogen Propane 74-98-6 Present

U.S. - Minnesota - Hazardous Substance List

Butane 106-97-8 Present Ethanol 64-17-5 Present

Propane 74-98-6 Simple asphyxiant

U.S. - New Jersey - Right to Know Hazardous Substance List

 Butane
 106-97-8
 sn 0273

 Ethanol
 64-17-5
 sn 0844

 Propane
 74-98-6
 sn 1594

U.S. - Pennsylvania - RTK (Right to Know) List

 Butane
 106-97-8
 Present

 Ethanol
 64-17-5
 Present

 Propane
 74-98-6
 Present

U.S. - Rhode Island - Hazardous Substance List

Butane 106-97-8 Toxic; Flammabl e Ethanol 64-17-5 Toxic; Flammabl e Propane 74-98-6 Toxic; Flammable

#### Inventory name

Country(s) or regionInventory nameOn inventory (yes/no)\*CanadaDomestic Substances List (DSL)YesCanadaNon-Domestic Substances List (NDSL)NoUnited States & Puerto RicoToxic Substances Control Act (TSCA) InventoryYesA "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

#### 16. Other Information

### LEGEND HMIS/NFPA Severe 4

Serious 3 Moderate 2 Slight 1 Minimal 0 Health /2
Flammability 4
Physical Hazard 0
Personal Protection X



#### Disclaimer

Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

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Prepared by Nu-Calgon Technical Service (314) 469-7000

Other information For an updated MSDS, please contact the supplier/manufacturer listed on the first

page of the document.

This MSDS conforms to the ANSI Z400.1/Z129.1-2010 Standard.