

MATERIAL SAFETY DATA SHEET CHMOOSIH

1. Product and Company Identification

Product Name A/C EasySeal (4050-06)

CAS#

Product use Sealant for sealing refrigerant leaks in refrigeration and AC systems

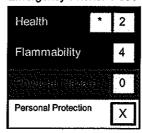
Manufacturer Nu-Calgon

2008 Altom Court St. Louis, MO 63146 US

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

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

LEGEND HMIS/NFPA 4 Severe Serious 3 2 Moderate 1 Slight 0 Minimal





2. Hazards Identification

DANGER **Emergency overview**

Extremely flammable. Contents under pressure. Containers may explode when heated.

EYE IRRITANT. Skin irritation possible with prolonged exposure.

Contains a potential mutagen.

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.

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.

#19314 Page 1 of 6 Issue date 24-Jun-2009 Ingestion Do not induce vomiting. Never give anything by mouth if victim is unconscious, or is

convulsing. Obtain medical attention.

Notes to physician

General advice

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 eyes and skin. Keep out of reach of children.

5. Fire Fighting Measures

Flammable properties

Flammable aerosol by flame projection test. Containers may explode when heated.

Extinguishing media

Suitable extinguishing media

Unsuitable extinguishing media Not available

Carbon dioxide. Dry chemical. Foam.

Protection of firefighters

Specific hazards arising from

the chemical

flame. Cool containers with flooding quantities of water until well after fire is out. Firefighters should wear full protective clothing including self contained breathing

Contents under pressure. Pressurized container may explode when exposed to heat or

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Protective equipment for firefighters
Hazardous combustion products

apparatus.

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

Explosion data

Sensitivity to mechanical

impact

Sensitivity to static discharge

Not available

Not available

6. Accidental Release Measures

Personal precautions

Keep unnecessary personnel away. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak.

Methods for containment

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.

Methods for cleaning up

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

Storage

Keep out of reach of children. Do not store at temperatures above 49 °C (120.2°F). Keep away from heat, open flames or other sources of ignition.

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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	
	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.

As required by employer code. Skin and body protection

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

Compressed liquefied gas **Appearance** Color Colorless **Form** Spray Odor Amine Not available Odor threshold Physical state Gas Not available Нq Not available **Melting point** Freezing point Not available 61.66 °C (143 °F) **Boiling point** 55.68 °C (132.23 °F) Tag Closed Cup Flash point **Evaporation rate** Flammability limits in air, lower, % Not available

by volume

Flammability limits in air, upper, %

by volume

Not available

Vapor pressure 117.74 hPa > 1 (Air=1) Vapor density

9.1 Specific gravity

Octanol/water coefficient Not available Not available Solubility (H2O) **Auto-ignition temperature** Not available Not available VOC (Weight %) Not available Viscosity Not available Percent volatile

#19314 Page 3 of 6 Issue date 24-Jun-2009 10. Stability and Reactivity

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

Possibility of hazardous reactions Hazardous polymerization does not occur.

11. Toxicological Information

Component analysis - LC50

Ingredient(s) LC50

 Butane
 658 mg/l/4h rat

 Ethanol
 31623 ppm rat

Propane 658 mg/l/4h rat

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.

Sensitization Non-hazardous by WHMIS/OSHA criteria.

Chronic effects Non-hazardous by WHMIS/OSHA criteria.

Carcinogenicity See below.

ACGIH • Threshold Limit Values • Carcinogens

Ethanol 64-17-5 A4 - Not Classifiable as a Human Carcinogen

IARC - Group 1 (Carcinogenic to Humans)

Ethanol 64-17-5 Monograph 96 [2007] (in alcoholic beverages)

Mutagenicity Mutagenic effects were observed in somatic and reproductive cells of live animals (rats

and mice) exposed to high oral doses of ethanol.

Reproductive effects Hazardous by WHMIS/OSHA criteria.

Teratogenicity Animal studies demonstrate that ingestion of ethanol can cause embryotoxicity,

teratogenicity and fetotoxicity in the presence of maternal toxicity.

12. Ecological Information

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

concerns.

Ecotoxicity - Freshwater Fish Species 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 - Microtox Data

Ethanol 64-17-5 5 Min EC50 Photobacterium phosphoreum: 35470 mg/L; 30 min EC50 Photobacterium

phosphoreum: 34634 mg/L

Ecotoxicity - Water Flea Data

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

Environmental effects Not available
Aquatic toxicity Not available
Persistence / degradability Not available

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

13. Disposal Considerations

Waste codes Not available

Dispose in accordance with all applicable regulations. **Disposal instructions** Not available

Waste from residues / unused

products

Contaminated packaging Not available

14. Transport Information

U.S. Department of Transportation (DOT)

Consumer Commodity ORM-D

Transportation of Dangerous Goods (TDG - Canada)

Consumer Commodity

15. Regulatory Information

This product has been classified in accordance with the hazard criteria of the Controlled Canadian federal regulations

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

Batch 4, published November 17, 2007

Canada - WHMIS - Ingredient Disclosure List Butane 106-97-8

64-17-5 0.1 % Ethanol

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

Communication Standard, 29 CFR 1910.1200.

CERCLA/SARA Hazardous Substances - Not applicable.

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous

chemical

CERCLA (Superfund) reportable quantity

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Immediate Hazard - Yes **Hazard categories**

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 Not available Clean Water Act (CWA) Controlled WHMIS status

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

Division 2A, 2B

WHMIS labeling







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State regulations

WARNING: This product contains a chemical known to the State of California to cause

birth defects or other reproductive harm.

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

Butane 106-97-8 Present

Ethanol 64-17-5 Present (refers to solutions greater than or equal to 25% which are not beverage alcohols)

U.S. - California - Proposition 65 - Developmental Toxicity

Ethanol 64-17-5 developmental toxicity, initial date 10/1/87 (when in alcoholic beverages)

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; Flammable Ethanol 64-17-5 Toxic; Flammable Propane 74-98-6 Toxic; Flammable

Inventory name

Country(s) or region Inventory name On inventory (yes/no)*

CanadaDomestic Substances List (DSL)YesCanadaNon-Domestic Substances List (NDSL)No

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory Yes

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

16. Other Information

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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