

MATERIAL SAFETY DATA SHEET

7690
MSDS REC'D by Trane February 10, 2010

1. Product and Company Identification

CHM00815

Product Name A/C EasyDry (4051-06)

CAS # Mixture

Product use Dehydrating agent that eliminates moisture in refrigeration and AC systems

Manufacturer Nu-Calgon

2008 Altom Court St. Louis. MO 63146 US

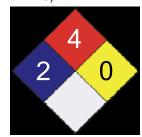
Phone: 314-469-7000 / 800-554-5499

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

LEGEND
HMIS/NFPA

Severe 4
Serious 3
Moderate 2
Slight 1
Minimal 0





2. Hazards Identification

Emergency overview DANGER

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.

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

convulsing. Obtain medical attention.

Symptoms may be delayed.

Notes to physician

General advice

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 Carbon dioxide. Dry chemical. Foam.

Unsuitable extinguishing media Not available

Protection of firefighters

Specific hazards arising from

the chemical

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.

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

Protective equipment for firefiahters

Firefighters should wear full protective clothing including self contained breathing apparatus.

Hazardous combustion products

Explosion data

Not available

Sensitivity to mechanical

impact

Sensitivity to static discharge

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.

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.

Skin and body protection As required by employer code.

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**

Colorless Color Spray **Form** Odor Amine Not available **Odor threshold**

Physical state Gas

pН Not available **Melting point** Not available Not available Freezing point **Boiling point** 61.66 °C (143 °F)

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

Evaporation rate

Flammability limits in air, lower, % Not available

by volume

Flammability limits in air, upper, % Not available

by volume

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

Specific gravity 9.1

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

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.

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 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

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

13. Disposal Considerations

Waste codes Not available

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

Waste from residues / unused

Contaminated packaging

products

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

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

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

Canada - WHMIS - Ingredient Disclosure List

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

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

Yes

CERCLA (Superfund) reportable quantity

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

Not available Clean Air Act (CAA) Not available Clean Water Act (CWA) WHMIS status Controlled

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

Division 2A, 2B

WHMIS labeling







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

Butane106-97-8PresentEthanol64-17-5TeratogenPropane74-98-6Present

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 regionInventory nameOn inventory (yes/no)*CanadaDomestic Substances List (DSL)YesCanadaNon-Domestic Substances List (NDSL)NoUnited States & Puerto RicoToxic Substances Control Act (TSCA) InventoryYes

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

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