

## Material Safety Data Sheet

Date Created: 03/07/2009

Date Updated: 02/06/2010

Version: 1.0

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Section 1 - Product And Company Information

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Product Ethylene Glycol Monoethyl Ether Acetate (CAC)  
Product No D024  
Company Dynamic N.A. Inc  
Address 23 Captains Walk, Milford, CT 06460, U.S.A.  
Phone 914 498 0318  
Fax 914 375 2093

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Section 2 - Composition/Information On Ingredients

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Synonyms 2-Ethoxyethyl acetate, 1-Acetoxy-2-ethoxyethane  
CAS # 111-15-9  
Formula  $C_6H_{12}O_3$

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Section 3 - Hazards Identification

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## EMERGENCY OVERVIEW

## OSHA HAZARDS

Combustible Liquid, Target Organ Effect, Teratogen, Reproductive hazard

## TARGET ORGANS

Central nervous system, Kidney, Lungs, Testes.

GHS LABEL ELEMENTS, including precautionary statements

Signal word Danger

## Hazard statement(s)

H226 Flammable liquid and vapour.

H303 May be harmful if swallowed.

H312 + H332 Harmful in contact with skin or if inhaled.

H360 May damage fertility or the unborn child.

## Precautionary statement(s)

P201 Obtain special instructions before use.

P280 Wear protective gloves/protective clothing.

P308 + P313 IF exposed or concerned: Get medical advice/attention.

## HMIS CLASSIFICATION

Health Hazard: 1

Chronic Health Hazard: \*

Flammability: 2

Physical hazards: 0

## NFPA RATING

Health Hazard: 1

Fire: 2

Reactivity Hazard: 0

## POTENTIAL HEALTH EFFECTS

Inhalation: May be harmful if inhaled. May cause respiratory tract irritation.

Skin: May be harmful if absorbed through skin. May cause skin irritation.

Eyes: May cause eye irritation.

Ingestion: May be harmful if swallowed.

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Section 4 - First Aid Measures

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## GENERAL ADVICE

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

## IF INHALED

If breathed in, move person into fresh air. If not breathing give artificial respiration. Consult a physician.

## IN CASE OF SKIN CONTACT

Wash off with soap and plenty of water. Consult a physician.

## IN CASE OF EYE CONTACT

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

## IF SWALLOWED

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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Section 5 - Fire Fighting Measures

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## SUITABLE EXTINGUISHING MEDIA

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

## SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Wear self contained breathing apparatus for fire fighting if necessary.

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Section 6 - Accidental Release Measures

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## PERSONAL PRECAUTIONS

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.

Evacuate personnel to safe areas.

## ENVIRONMENTAL PRECAUTIONS

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

## METHODS FOR CLEANING UP

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

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Section 7 - Handling and Storage

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## HANDLING

Avoid inhalation of vapour or mist.

Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

## STORAGE

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

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Section 8 - Exposure Controls / Personal Protection

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## PERSONAL PROTECTIVE EQUIPMENT

## RESPIRATORY PROTECTION

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

## HAND PROTECTION

Handle with gloves.

## EYE PROTECTION

Face shield and safety glasses

## SKIN AND BODY PROTECTION

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

## HYGIENE MEASURES

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

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Section 9 - Physical And Chemical Properties

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Appearance	Colorless clear Liquid
Molecular Weight:	132.16 g/mol
pH	n/a
Melting point	-61 °C (-78 °F) - lit.
Boiling point	156 °C (313 °F) - lit.
Flash point	54 °C (129 °F) - closed cup
Ignition temperature	379 °C (714 °F)
Lower explosion limit	1.7 %(V)
Upper explosion limit	13 %(V)
Vapour pressure	3 hPa (2 mmHg) at 20 °C (68 °F)

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Density 0.975 g/mL at 25 °C (77 °F)  
Water solubility n/a  
Relative vapour 4.56  
Density - (Air = 1.0)

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**Section 10 - Stability and Reactivity**

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**CHEMICAL STABILITY**

Stable under recommended storage conditions.

**CONDITIONS TO AVOID**

n/a

**MATERIALS TO AVOID**

Strong oxidizing agents, Nitrates, Strong acids, Strong bases

**HAZARDOUS DECOMPOSITION PRODUCTS**

Hazardous decomposition products formed under fire conditions. - Carbon oxides

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**Section 11 - Toxicological Information**

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**ACUTE TOXICITY**

LD50 Oral - rat - 2,700 mg/kg

LC50 Inhalation - rat - 8 h - 12,100 mg/m<sup>3</sup>**SKIN CORROSION/IRRITATION**

Skin - rabbit - Open irritation test

**SERIOUS EYE DAMAGE/EYE IRRITATION**

n/a

**RESPIRATORY OR SKIN SENSITIZATION**

n/a

**GERM CELL MUTAGENICITY**

n/a

**CARCINOGENICITY**

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**REPRODUCTIVE TOXICITY**

May cause congenital malformation in the fetus.

Presumed human reproductive toxicant

May cause reproductive disorders.

**POTENTIAL HEALTH EFFECTS**

Inhalation: May be harmful if inhaled. Causes respiratory tract irritation.

Skin: May be harmful if absorbed through skin. Causes skin irritation.

Eyes: Causes eye irritation.

Ingestion: May be harmful if swallowed.

**SIGNS AND SYMPTOMS OF EXPOSURE**

Nausea, Headache, Vomiting

**ADDITIONAL INFORMATION**

RTECS: KK8225000

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**Section 12 - Ecological Information**

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**TOXICITY**

Toxicity to daphnia and other aquatic invertebrates:

EC50 - Daphnia magna (Water flea) - 193.6 mg/l - 48 h

**PERSISTENCE AND DEGRADABILITY**

n/a

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## BIOACCUMULATIVE POTENTIAL

n/a

## MOBILITY IN SOIL

n/a

## PBT AND VPVB ASSESSMENT

n/a

## OTHER ADVERSE EFFECTS

Avoid release to the environment.

n/a

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Section 13 - Disposal Considerations

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## PRODUCT

This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.

## CONTAMINATED PACKAGING

Dispose of as unused product.

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Section 14 - Transport Information

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## DOT (US)

UN-Number: 1172                      Class: 3                      Packing group: III

Proper shipping name: Ethylene glycol monoethyl ether acetate

Marine pollutant: No

Poison Inhalation Hazard: No

## IMDG

UN-Number: 1172                      Class: 3                      Packing group: III                      EMS-No: F-E, S-D

Proper shipping name: Ethylene glycol monoethyl ether acetate

Marine pollutant: No

## IATA

UN-Number: 1172                      Class: 3                      Packing group: III

Proper shipping name: Ethylene glycol monoethyl ether acetate

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Section 15 - Regulatory Information

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## OSHA HAZARDS

Combustible Liquid, Target Organ Effect, Teratogen, Reproductive hazard

## DSL STATUS

All components of this product are on the Canadian DSL list.

## SARA 302 COMPONENTS

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

## SARA 313 COMPONENTS

Ethylglycol acetate                      CAS-No.:111-15-9                      Revision Date:1993-04-24

## SARA 311/312 HAZARDS

Fire Hazard, Chronic Health Hazard

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Section 16 - Other Information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.