

## Material Safety Data Sheet

Date Created: 03/07/2009

Date Updated: 02/06/2010

Version: 1.0

---

Section 1 - Product And Company Information

---

Product Acetyl Tributyl Citrate (ATBC)  
Product No D030  
Company Dynamic N.A. Inc  
Address 23 Captains Walk, Milford, CT 06460, U.S.A.  
Phone 1 914 965 2077  
Fax 1 914 375 2093

---

Section 2 - Composition/Information On Ingredients

---

Synonyms ATBC  
CAS # 77-90-7  
Formula C<sub>20</sub>H<sub>34</sub>O<sub>8</sub>

---

Section 3 - Hazards Identification

---

## GHS CLASSIFICATION

Not a dangerous substance according to GHS.

---

Section 4 - First Aid Measures

---

## IF INHALED

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

## IN CASE OF SKIN CONTACT

Wash off with soap and plenty of water.

## IN CASE OF EYE CONTACT

Flush eyes with water as a precaution.

## IF SWALLOWED

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

## MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

## INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

No data available

---

Section 5 - Fire Fighting Measures

---

## EXTINGUISHING MEDIA

## SUITABLE EXTINGUISHING MEDIA

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

## SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

Carbon oxides

## PRECAUTIONS FOR FIRE-FIGHTERS

Wear self contained breathing apparatus for fire fighting if necessary.

---

Section 6 - Accidental Release Measures

---

## PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Avoid breathing vapors, mist or gas.

## ENVIRONMENTAL PRECAUTIONS

Do not let product enter drains.

## METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

Keep in suitable, closed containers for disposal.

## REFERENCE TO OTHER SECTIONS

For disposal see section 13.

---

Section 7 - Handling and Storage

---

## PRECAUTIONS FOR SAFE HANDLING

Normal measures for preventive fire protection.

## CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

## Material Safety Data Sheet

Date Created: 03/07/2009

Date Updated: 02/06/2010

Version: 1.0

Store in cool place. 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. Moisture sensitive.

## SPECIFIC END USES

No data available

---

Section 8 - Exposure Controls / Personal Protection

---

## CONTROL PARAMETERS

## OCCUPATIONAL EXPOSURE LIMITS

We are not aware of any national exposure limit.

## EXPOSURE CONTROLS

## APPROPRIATE ENGINEERING CONTROLS

General industrial hygiene practice.

## PERSONAL PROTECTIVE EQUIPMENT

## EYE/FACE PROTECTION

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

## SKIN PROTECTION

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

## BODY PROTECTION

impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

## RESPIRATORY PROTECTION

Respiratory protection not required. For nuisance exposures use type OV/AG (US) or type ABEK (EU EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

---

Section 9 - Physical And Chemical Properties

---

Appearance	Liquid
pH	N/A
BP/BP Range	N/A
Flash point	113 °C - closed cup
Lower explosion limit	N/A
Upper explosion limit	N/A
Vapor pressure	55.2 hPa at 55 °C; 17.9 hPa at 20 °C
Density	N/A
Water solubility	N/A
Relative Density	1.050 g/cm <sup>3</sup>

---

Section 10 - Stability and Reactivity

---

## CONDITIONS TO AVOID

Avoid moisture.

## INCOMPATIBLE MATERIALS

Strong oxidizing agents

---

Section 11 - Toxicological Information

---

## ACUTE TOXICITY

LD50 Intraperitoneal - mouse - > 4,000 mg/kg

## 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.

## POTENTIAL HEALTH EFFECTS

## Material Safety Data Sheet

Date Created: 03/07/2009

Date Updated: 02/06/2010

Version: 1.0

Inhalation May be harmful if inhaled. May cause respiratory tract irritation.  
Ingestion May be harmful if swallowed.  
Skin May be harmful if absorbed through skin. May cause skin irritation.  
Eyes May cause eye irritation.

## SIGNS AND SYMPTOMS OF EXPOSURE

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

## ADDITIONAL INFORMATION

RTECS: TZ8330000

---

Section 12 - Ecological Information

---

No data available

---

Section 13 - Disposal Considerations

---

## WASTE TREATMENT METHODS

## PRODUCT

Offer surplus and non-recyclable solutions to a licensed disposal company.

## CONTAMINATED PACKAGING

Dispose of as unused product.

---

Section 14 - Transport Information

---

## UN PROPER SHIPPING NAME

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

---

Section 15 - Regulatory Information

---

Safety, health and environmental regulations/legislation specific for the substance or mixture

## NATIONAL REGULATORY INFORMATION

HSNO Approval Code: HSR002715

HSNO Group Standard Approval: HSR002596 - Laboratory Chemicals and Reagent Kits Group Standard 2006

Tracking Required: not required

Approved Handler Cert.: not required

## NOTIFICATION STATUS

AICS: On the inventory, or in compliance with the inventory

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

ENCS: On the inventory, or in compliance with the inventory

IECSC: On the inventory, or in compliance with the inventory

ISHL: On the inventory, or in compliance with the inventory

KECI: On the inventory, or in compliance with the inventory

NZIoC: On the inventory, or in compliance with the inventory

PICCS: On the inventory, or in compliance with the inventory

---

Section 16 - Other Information

---

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.