

Material Safety Data Sheet

Date Created: 03/07/2009

Date Updated: 02/06/2010

Version: 1.0

Section 1 - Product And Company Information

Product Tributyl citrate (TBC)
Product No D029
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 TBC
CAS # 77-94-1
Formula $C_{18}H_{32}O_7$

Section 3 - Hazards Identification

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

Not a dangerous substance according to GHS.

This substance is not classified as dangerous according to Directive 67/548/EEC.

LABEL ELEMENTS

The product does not need to be labelled in accordance with EC directives or respective national laws.

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 ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

No data available

Section 5 - Fire Fighting Measures

SUITABLE EXTINGUISHING MEDIA

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

SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

Carbon oxides

ADVICE FOR FIREFIGHTERS

Wear self contained breathing apparatus for fire fighting if necessary.

FURTHER INFORMATION

No data available

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.

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Section 7 - Handling and Storage

PRECAUTIONS FOR SAFE HANDLING

Normal measures for preventive fire protection.

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

SPECIFIC END USES

No data available

Section 8 - Exposure Controls / Personal Protection

CONTROL PARAMETERS

Components with workplace control parameters

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	Colorless, liquid, clear
Optical Rotation:	N/A
pH	N/A
BP/BP Range	N/A
Flash point	N/A N/A
Lower explosion limit	N/A
Upper explosion limit	N/A
Vapor pressure	N/A
Density	N/A
Water solubility	N/A
Relative Density	1,043 g/mL at 20 °C

Section 10 - Stability and Reactivity

INCOMPATIBLE MATERIALS

Strong oxidizing agents

Section 11 - Toxicological Information

ACUTE TOXICITY

LD50 Intraperitoneal - mouse - 2.900 mg/kg

Remarks: Behavioral:Somnolence (general depressed activity). Vascular:Other changes.

CARCINOGENICITY

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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

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: TZ8608000

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

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE

No data available

CHEMICAL SAFETY ASSESSMENT

No data available

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.