

Material Safety Data Sheet

Date Created: 03/07/2009

Date Updated: 02/06/2010

Version: 1.0

Section 1 - Product And Company Information

Product Ethylene Glycol Dibutyl Ether (EDB)
Product No D014
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 1,2-Dibutoxyethane , Dibutyl Cellosolve , Dibutyl Glycol, EDB
CAS # 112-48-1
Formula C₁₀H₂₂O₂

Section 3 - Hazards Identification

ENVIRONMENTAL HAZARDS Not classified

GHS label elements

Pictograms or hazard symbols None

Signal word Warning

HAZARD STATEMENT

Combustible liquid

May be harmful in contact with skin and if swallowed

Causes mild skin irritation

Causes eye irritation

PRECAUTIONARY STATEMENTS

Prevention

Keep away from flames and hot surfaces.

Wear protective gloves and eye/face protection.

Response

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses,

If present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

Wash hands thoroughly after handling.

If skin irritation occurs: Get medical advice/attention.

Call a poison center or doctor/physician if you feel unwell.

STORAGE

STORE IN A WELL-VENTILATED PLACE. KEEP COOL.

DISPOSAL

Dispose of contents/container through a waste management company authorized by the local government.

OTHER HAZARDS WHICH DO NOT RESULT IN CLASSIFICATION

May form explosive peroxides.

Section 4 - First Aid Measures

INHALATION - Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Call a poison center or doctor/physician if you feel unwell.

SKIN - Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.

EYE - Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing. If eye irritation persists: Get medical advice/attention.

INGESTION - Call a poison center or doctor/physician if you feel unwell. Rinse mouth.

SYMPTOMS/EFFECTS - dry skin, redness

PROTECTION OF FIRST-AIDERS - A rescuer should wear personal protective equipment, such as rubber gloves and airtight goggles.

Section 5 - Fire Fighting Measures

SUITABLE EXTINGUISHING MEDIA

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Dry chemical, foam, carbon dioxide.

EXTINGUISHING MEDIA NOT TO BE USED

Water (It may scatter and spread fire.)

SPECIFIC METHODS

Fire-extinguishing work is done from the windward and the suitable fire-extinguishing method according to the surrounding situation is used. Uninvolved persons should evacuate to a safe place. In case of fire in the surroundings: Remove movable containers if safe to do so.

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS

When extinguishing fire, be sure to wear personal protective equipment.

Section 6 - Accidental Release Measures

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Use personal protective equipment. Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Entry to non-involved personnel should be controlled around the leakage area by roping off.

ENVIRONMENTAL PRECAUTIONS

Prevent product from entering drains.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

Absorb spilled material in a suitable absorbent (e.g. rag, dry sand, earth, saw-dust). In case of large amount of spillage, contain a spill by bunding. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

PREVENTION OF SECONDARY HAZARDS

Remove all sources of ignition. Fire-extinguishing devices should be prepared in case of a fire. Use spark-proof tools and explosion-proof equipment.

Section 7 - Handling and Storage

HANDLING

Technical measures: Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent generation of vapor or mist. Keep away from flames and hot surfaces. Take measures to prevent the build up of electrostatic charge. Use explosion-proof equipment. Wash hands and face thoroughly after handling. Use a closed system, ventilation.

Advice on safe handling: Avoid contact with skin, eyes and clothing. Confirm in advance if peroxides exist when operations involving heating such as distillation are carried out.

STORAGE

Storage conditions: Keep container tightly closed. Store in a cool, dark and well-ventilated place.

Store away from incompatible materials such as oxidizing agents.

Packaging material: Law is followed.

Section 8 - Exposure Controls / Personal Protection

ENGINEERING CONTROLS

Install a closed system or local exhaust as possible so that workers should not be exposed directly. Also install safety shower and eye bath.

PERSONAL PROTECTIVE EQUIPMENT

ENGINEERING CONTROLS

Install a closed system or local exhaust as possible so that workers should not be exposed directly. Also install safety shower and eye bath.

PERSONAL PROTECTIVE EQUIPMENT

Respiratory protection: Vapor respirator. Follow local and national regulations.

Hand protection: Protective gloves.

Eye protection: Safety glasses. A face-shield, if the situation requires.

Skin and body protection: Protective clothing. Protective boots, if the situation requires.

Section 9 - Physical And Chemical Properties

Appearance	Colorless, liquid, clear
pH:	No data available
Melting point/freezing point:	-69 °C
Boiling Point/Range:	202 °C

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Flash Point:	85°C
Explosive limits	
Lower:	No data available
Upper:	No data available
Vapor Pressure:	12Pa/20°C
Vapor Density:	6
Density:	0.84
Solubility:	Very slightly soluble in: Water

Section 10 - Stability and Reactivity

STABILITY

May form explosive peroxides.

REACTIVITY

No special reactivity has been reported.

INCOMPARTIBLE MATERIALS

Oxidizing agents

HAZARDOUS DECOMPOSITION PRODUCTS

Carbon monoxide, Carbon dioxide

Section 11 - Toxicological Information

ACUTE TOXICITY

orl-rat LD50:2650 mg/kg

orl-rbt LD50:1425 mg/kg

skn-rbt LD50:3560 uL/kg

SKIN CORROSION/IRRITATION: skn-rbt 500 mg open MLD

SERIOUS EYE DAMAGE/IRRITATION: No data available

GERM CELL MUTAGENICITY: No data available

CARCINOGENICITY:

IARC = No data available

NTP = No data available

REPRODUCTIVE TOXICITY: No data available

RTECS NUMBER: KH9450000

Section 12 - Ecological Information

No data available

Section 13 - Disposal Considerations

Recycle to process, if possible. Consult your local regional authorities. You may be able to burn in a chemical incinerator equipped with an afterburner and scrubber system. Observe all federal, state and local regulations when disposing of the substance.

Section 14 - Transport Information

Hazards Class: Does not correspond to the classification standard of the United Nations

UN-No: Not Listed

Section 15 - Regulatory Information

Safe management ordinance of dangerous chemical product (State Council announces on January 26, 2002): Safe use and production, the storage of a dangerous chemical, transport, loading and unloading were prescribed.

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.