

Global Product Strategy (GPS) Safety Summary

Glycol Ether DB Acetate

This GPS Safety Summary is a high-level summary intended to provide the general public with an overview of product safety information on this chemical substance. It is not intended to provide emergency response, medical or treatment information, or to provide an overview of all safety and health information. This summary is not intended to replace the Safety Data Sheet. For detailed guidance on the use or regulatory status of this substance, please consult the Safety Data Sheet and the Product Stewardship Bulletin (PSB).

Chemical Identity

Name: Glycol Ether DB Acetate

Brand names: Glycol Ether DB Acetate

Chemical name (IUPAC): 2-(2-Butoxyethoxy) ethanol acetate

Synonym: Diethylene Glycol Monobutyl Ether Acetate

CAS number: 124-17-4

EC number: 204-685-9

Molecular formula: C₁₀H₂₀O₄

Uses and Applications

Glycol Ether DB Acetate is an excellent solvent for many natural and synthetic resins. It finds use primarily as a solvent in printing inks and high-bake enamel coatings and as a coalescing agent in latex paints.

Physical / Chemical Properties

Glycol Ether DB Acetate (DBA) is a colorless liquid with a mild ester-like odor. It is miscible with most organic solvents and is partially soluble in water. It has a flash point of 116°C (240°F). The boiling point and freezing point are 242°C (467°F) and -36°C (-33°F), respectively.

Health Effects

Glycol Ether DB Acetate presents a minimal acute toxicity hazard to humans after exposure via ingestion, skin contact and inhalation. Glycol Ether DB Acetate is moderately irritating to the eye and mildly irritating to the skin.

The table below gives an overview of the health effects assessment results for Glycol Ether DB Acetate.

Effect Assessment	Result
Acute toxicity Oral / inhalation / dermal	Minimal acute toxicity by the oral, inhalation and dermal routes of exposure
Irritation / corrosion	Moderate eye and mild skin irritant

Skin / eye / respiratory tract	
Sensitization	Not considered to be a sensitizer
Toxicity after repeated exposure Oral / inhalation / dermal	Low concern for repeated exposure toxicity
Genotoxicity / mutagenicity	Not expected to be genotoxic, nor mutagenic
Carcinogenicity	Not expected to be a human carcinogen
Toxicity for reproduction	Not expected to be toxic to reproduction

Environmental Effects

The table below gives an overview of the environmental effects assessment results for Glycol Ether DB Acetate.

Effect Assessment	Result
Aquatic toxicity	Not expected to be harmful to aquatic organisms

Fate and behaviour	Result
Biodegradation	Expected to be readily biodegradable
Bio-accumulation potential	Not expected to bio-accumulate
PBT / vPvB conclusion	Not considered to be either PBT or vPvB.

PBT = Persistent, Bio-accumulative and Toxic in the environment.
vPvB = very Persistent and very Bio-accumulative in the environment.

Exposure

Human health

Consumers may be exposed to small amounts of Glycol Ether DB Acetate during the use of consumer products containing Glycol Ether DB Acetate.

Worker exposure to Glycol Ether DB Acetate in manufacturing facilities is low because the process, storage and handling operations are generally enclosed. However, worker exposure can potentially occur during operations such as product transfer, product sampling, or maintenance / repair activities on product containing systems. The risk of accidental exposure should be controlled by selecting and applying the appropriate Risk Management Measures.

Professional and industrial workers may come into contact with Glycol Ether DB Acetate as a component of industrial products containing Glycol Ether DB Acetate. Exposure should be controlled by selecting and applying the appropriate Risk Management Measures.

Environment

The manufacture of Glycol Ether DB Acetate is a closed and automated process. Also, transfer (loading and transport) of the product is conducted in a closed system to prevent release.

However, due to its use as a component in products such as coatings, cleaners and household products, Glycol Ether DB Acetate has indoor and outdoor environmental release possibilities.

Glycol Ether DB Acetate is soluble in water and is not expected to be bio-accumulative.

Risk Management Measures

For detailed guidance on the use of Glycol Ether DB Acetate, the Safety Data Sheet should be consulted.

Consumer use

When using a consumer product containing Glycol Ether DB Acetate at home, all instructions and precautions should be read, understood and followed, such as recommendations for use of eye protection or gloves. Adequate ventilation should be provided, and it should not be used near open flames or other ignition sources.

Human health (industrial and professional use)

When using chemicals make sure that there is adequate ventilation. Use appropriate chemical-resistant gloves to protect your hands and skin, wear eye protection such as chemical goggles, and wear flame-retardant clothing. Do not eat, drink, or smoke where chemicals are handled, processed or stored. Wash hands and skin following contact. If the substance gets into your eyes, rinse eyes thoroughly for at least 15 minutes with tap water and seek medical attention.

In the case of transfer or maintenance operations, clear transfer lines prior to decoupling, and flush/drain to a closed system for recycle prior to opening equipment.

In cases where engineering controls cannot maintain airborne substance concentrations below exposure limits, or in cases with a risk of accidental exposure, additional risk management measures may be necessary such as the use of a complete suit protecting against chemicals and supplied air, a self-contained breathing apparatus or respirator.

Spills and Leaks

Contain spill with dike to prevent entry into sewers or waterways. For large spills, dike and pump into properly labeled containers for reclamation or disposal. For small spills, soak up with absorbent material and place in properly labeled containers for disposal. All recovered material should be packaged, labeled, transported and disposed of or reclaimed in conformance with applicable laws, regulations and good engineering practices. Reclaim where possible.

Regulatory Information / Classification and Labeling

This substance has been registered under REACH by relevant companies of LyondellBasell in the European Union.

For a detailed overview of the regulatory status of this substance, please refer to the Product Stewardship Bulletin available on lyondellbasell.com.

Under the Globally Harmonized System on classification and labeling (GHS) substances are classified according to their physical, health and environmental hazards. The hazards are communicated via specific labels on the product packaging and the Safety Data Sheet. GHS attempts to standardize hazard communication so that the intended audience (workers,

consumers, transport workers, and emergency responders) can better understand the hazards of the chemicals in use.

For a detailed overview of the classification and labeling of this substance, please refer to the regional Safety Data Sheet found on lyondellbasell.com.

Conclusion Statements

- Glycol Ether DB Acetate is an excellent solvent for many natural and synthetic resins. It finds use primarily as a solvent in printing inks and high-bake enamel coatings and as a coalescing agent in latex paints.
- Glycol Ether DB Acetate has minimal acute toxicity by all routes of exposure and is a mild skin and moderate eye irritant. It should be used only in well ventilated areas away from ignition sources and with the recommended risk management measures.
- Glycol Ether DB Acetate is not expected to be harmful to aquatic organisms, is expected to readily biodegrade and is not expected to bio-accumulate.

Contact Information within Company

For further information on this product in general, please consult the LyondellBasell corporate website (www.lyb.com).

Date of issue

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Glycol Ether DB Acetate is a product of Equistar Chemicals, LP and Lyondell Chemie Nederland B.V.