

SAFETY DATA SHEET

1. Identification

Product identifier: TEGO® Addbond LTK-B

Chemical name: Solution of polyester resin, styrene free

Other means of identification

Recommended use: Industrial use

Recommended restrictions: None known.

Manufacturer/Importer/Distributor Information

Company Name : Evonik Operations GmbH
Rellinghauser Str. 1-11
45128 Essen
Germany

Telephone : +49 201 173 01

Fax : +49 201 173 3000

E-mail : productsafety-sp@evonik.com

Emergency telephone number:

24-Hour Health : +49 2365 49 2232

Emergency : +49 2365 49 4423 (Fax)

2. Hazard(s) identification

Classification according to GHS

Physical Hazards

Flammable liquids Category 3

Health Hazards

Specific Target Organ Toxicity -
Single Exposure Category 3
(Narcotic effect.)

Environmental Hazards

Acute hazards to the aquatic
environment Category 3

Label Elements

Hazard Symbol:



Signal Word: Warning

Hazard Statement: Flammable liquid and vapor.
 May cause drowsiness or dizziness.
 Harmful to aquatic life.

Precautionary Statements

Prevention: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Ground and bond container and receiving equipment. Use explosion-proof electrical, ventilating and lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Avoid breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.

Response: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

Storage: Store in a well-ventilated place. Keep container tightly closed. Store locked up.

Disposal: Dispose of contents/ container to an approved facility in accordance with local, regional, national and international regulations.

Other hazards: None known.

3. Composition/information on ingredients

Chemical name:
 Solution of polyester resin, styrene free

Mixtures

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%) [*]
Butyl acetate	No data available.	123-86-4	40%

^{*} All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

The exact concentration has been withheld as a trade secret.

4. First-aid measures

Description of first aid measures

General information:	Remove soiled or soaked clothing immediately
Inhalation:	fresh air supply, consult a doctor if feeling unwell.
Skin Contact:	In case of contact with skin wash off with soap and water. In case of discomfort: Supply with medical care.
Eye contact:	In case of contact with eyes rinse thoroughly with plenty of water. If symptoms persist, seek medical advice.
Ingestion:	Rinse out mouth and give plenty of water to drink. In case of discomfort: Supply with medical care.
Personal Protection for First-aid Responders:	No data available.

Most important symptoms and effects, both acute and delayed

Symptoms:	Up to now no symptoms are known.
Hazards:	No data available.

Indication of immediate medical attention and special treatment needed

Treatment:	Treat symptomatically.
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5. Fire-fighting measures

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media: foam, carbon dioxide, dry powder, water spray.

Unsuitable extinguishing media: High volume water jet.

Special hazards arising from the substance or mixture: In the event of fire the following can be released: - carbon dioxide, carbon monoxide Under certain conditions of combustion traces of other toxic substances cannot be excluded

Special protective equipment and precautions for firefighters

Special fire fighting procedures: The product can release hydrogen. Explosive mixtures may develop in partially emptied containers.

Special protective equipment for fire-fighters: Do not inhale explosion and/or combustion gases. Self-contained breathing apparatus.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:	Use personal protective equipment.
Accidental release measures:	No data available.
Methods and material for containment and cleaning up:	Take up with absorbent material (eg sand, kieselguhr, universal binder) Dispose of absorbed material in accordance with the regulations.
Environmental Precautions:	Do not allow to enter drains or waterways Prevent product from getting into subsoil/soil.

7. Handling and storage

Handling

Technical measures:	No data available.
Local/Total ventilation:	No data available.
Safe handling advice:	Provide good ventilation of working area (local exhaust ventilation if necessary). Avoid contact with skin and eyes. Do not inhale gases/vapours/aerosols.
Contact avoidance measures:	No data available.

Storage

Safe storage conditions:	Keep container tightly closed in a cool, well-ventilated place. Keep away from heat. Do not store together with oxidizing agents.
Safe packaging materials:	No data available.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

Chemical Identity	Type	Form of exposure	Exposure Limit Values	Source
Butyl acetate	TWA		50 ppm	ACGIH (03 2016)
	STEL		150 ppm	ACGIH (03 2016)

Please refer to the latest edition of the appropriate source text and consult an industrial hygienist or similar professional, or local agencies, for further information.

Biological Limit Values

No biological exposure limits noted for the ingredient(s).

Appropriate Engineering Controls No data available.

Individual protection measures, such as personal protective equipment

General information: No data available.

Eye/face protection: Safety goggles

Hand Protection:
 Material: Butyl rubber.
 Break-through time: 60 min
 Glove thickness: 0,3 mm
 Material: PVC
 Break-through time: 30 min
 Glove thickness: 0,9 mm
 Material: Nitrile rubber.
 Break-through time: 30 min
 Glove thickness: 0,9 mm

Other: protective clothing

Respiratory Protection: in case of formation of vapours/aerosols: Short term: filter apparatus, combination filter A-P2

Hygiene measures: Wash hands before breaks and immediately after handling the product. When using do not eat, drink or smoke. Remove soiled or soaked clothing immediately.

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance

Physical state: liquid

Form: liquid

Color: slightly yellowish

Odor: solvent-like

Odor Threshold: not measured

Freezing point: not measured

Boiling Point: Approximate
126 °C/259 °F
Solvent

Flammability: No data available.

Upper/lower limit on flammability or explosive limits

Explosive limit - upper: not measured

Explosive limit - lower: not measured

Flash Point: Approximate

	27 °C/81 °F Solvent
Auto-ignition temperature:	not measured
Decomposition Temperature:	not measured
pH:	Not applicable
Viscosity	
Dynamic viscosity:	0,82 mPa.s 25 °C/77 °F Solvent
Kinematic viscosity:	0,94 mm ² /s 25 °C/77 °F , Method: calculated
Flow Time:	No data available.
Solubility(ies)	
Solubility in Water:	Insoluble
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	not measured
Vapor pressure:	Approximate 11,2 hPa 20 °C/68 °F Solvent
Relative density:	not measured
Density:	Approximate 0,881 g/cm ³ Solvent
Bulk density:	not measured
Relative vapor density:	not measured
Particle characteristics	
Particle Size:	Not applicable
Particle Size Distribution:	No data available.
Specific surface area:	No data available.
Surface charge/Zeta potential:	No data available.
Shape:	No data available.
Crystallinity:	No data available.
Surface treatment:	No data available.
Other information	
Explosive properties:	not measured
Oxidizing properties:	not oxidizing
Pyrophoric properties:	not measured
Metal Corrosion:	Not corrosive to metals

Evaporation Rate: not measured

10. Stability and reactivity

Reactivity: see section "Possibility of hazardous reactions".

Chemical Stability: The product is stable under normal conditions.

Possibility of hazardous reactions: No hazardous reactions with proper storage and handling

Conditions to avoid: None with proper storage and handling.

Incompatible Materials: Oxidizing agent

Hazardous Decomposition Products: None with proper storage and handling.

11. Toxicological information

Information on likely routes of exposure

Inhalation: Information on effects are given below.

Skin Contact: Information on effects are given below.

Eye contact: Information on effects are given below.

Ingestion: Information on effects are given below.

Acute toxicity (list all possible routes of exposure)

Oral

Product: Not classified for acute toxicity based on available data.

Components:
 Butyl acetate LD 50, Rat, Female, 10.760 mg/kg, OECD 423
 LD 50, Rat, Male, 12.789 mg/kg, OECD 423

Dermal

Product: Not classified for acute toxicity based on available data.

Components:
 Butyl acetate LD 50, Rabbit, Female, Male, > 14.112 mg/kg, OECD 402

Inhalation

Product: Not classified for acute toxicity based on available data.

Components:
 Butyl acetate LC 50, Rat, 4 h, 23,4 mg/l, Dust and mist, OECD 403
 Vapour, Not toxic after single exposure, No data available.

Repeated dose toxicity

Product: No data available.

Components:
 Butyl acetate No data available.

Skin Corrosion/Irritation

Product: No data available.
Components:
Butyl acetate Not irritating, OECD 404, Rabbit

Serious Eye Damage/Eye Irritation

Product: No data available.
Components:
Butyl acetate Not irritating, OECD 405, Rabbit

Respiratory or Skin Sensitization

Product: No data available.
Components:
Butyl acetate Maximization Test, OECD 406, Guinea Pig, Not a skin sensitizer.

Carcinogenicity

Product: No data available.
Components:
Butyl acetate No data available.

Germ Cell Mutagenicity

No data available.

In vitro

Product: No data available.
Components:
Butyl acetate No data available.

In vivo

Product: No data available.
Components:
Butyl acetate No data available.

Reproductive toxicity

Product: No data available.
Components:
Butyl acetate No data available.

Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Components:
Butyl acetate Inhalation - vapor, Central nervous system., Category 3 with narcotic effects., May cause drowsiness or dizziness.

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Components:
Butyl acetate No data available.

Aspiration Hazard

Product: Not classified
Components:
Butyl acetate Not classified

Information on health hazards

Other hazards

Product: No data available.

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish

Product: No data available.

Components:

Butyl acetate LC 50, Pimephales promelas, 96 h, 18 mg/l OECD 203

Aquatic Invertebrates

Product: No data available.

Components:

Butyl acetate EC 50, Daphnia magna, 48 h, 44 mg/l OECD 202

Toxicity to Aquatic Plants

Product: No data available.

Components:

Butyl acetate EC 50 (Desmodesmus subspicatus (green algae), 72 h): 647 mg/l growth rate

Toxicity to microorganisms

Product: No data available.

Components:

Butyl acetate IC 50, Tetrahymena pyriformis, 40 h, 356 mg/l

Toxicity to soil dwelling organisms

Product: No data available.

Components:

Butyl acetate No data available.

Toxicity to terrestrial organisms

Product: No data available.

Components:

Butyl acetate No data available.

Chronic hazards to the aquatic environment:

Fish

Product: No data available.

Components:

Butyl acetate No data available.

Aquatic Invertebrates

Product: No data available.

Components:

Butyl acetate No data available.

Toxicity to Aquatic Plants

Product:	No data available.
Components:	
Butyl acetate	NOEC (Desmodesmus subspicatus (green algae), 72 h): 200 mg/l growth rate

Toxicity to microorganisms

Product:	No data available.
Components:	
Butyl acetate	IC 50, Tetrahymena pyriformis, 40 h, 356 mg/l

Toxicity to soil dwelling organisms

Product:	No data available.
Components:	
Butyl acetate	No data available.

Toxicity to terrestrial organisms

Product:	No data available.
Components:	
Butyl acetate	No data available.

Persistence and Degradability

Biodegradation

Product:	No data available.
Components:	
Butyl acetate	83 %, 28 d, OECD 301 D, The product is easily biodegradable., aerobic

BOD/COD Ratio

Product:	No data available.
Components:	
Butyl acetate	No data available.

Bioaccumulative potential

Bioconcentration Factor (BCF)

Product:	No data available.
Components:	
Butyl acetate	No data available.

Partition Coefficient n-octanol / water (log Kow)

Product:	not measured
Components:	
Butyl acetate	2,3, OECD 117

Mobility in soil:

Product	No data available.
Components:	
Butyl acetate	No data available.

Other adverse effects:

Other hazards**Product:** Do not allow to enter soil, waterways or waste water canal.**13. Disposal considerations****Disposal methods:** In accordance with local authority regulations, take to special waste incineration plant**Contaminated Packaging:** If empty contaminated containers are recycled or disposed of, the receiver must be informed about possible hazards.**14. Transport information****International Regulations****IATA-DGR**

UN/ID No. : UN 1866
Proper shipping name : Resin solution
Class : 3
Packing group : III
Labels : 3
Packing instruction (cargo aircraft) : 366
Packing instruction (passenger aircraft) : 355
Remarks : FOR USA ONLY: When shipping in, by or via USA note of the Reportable Quantity-Regulation!

IMDG-Code

UN number or ID number : UN 1866
Proper shipping name : RESIN SOLUTION
Class : 3
Packing group : III
Labels : 3
EmS Code : F-E, S-E
Marine pollutant : no
Remarks : FOR USA ONLY: When shipping in, by or via USA note of the Reportable Quantity-Regulation!, Stowage category A, Segregation group not required / not applicable

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

15. Regulatory information

International regulations

Montreal protocol

Not applicable

Stockholm convention

Not applicable

Rotterdam convention

Not applicable

Kyoto protocol

Not applicable

16. Other information, including date of preparation or last revision

Issue Date: 20.06.2023

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Abbreviations and acronyms:

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Further Information: No data available.

Revision Information: Changes since the last version are highlighted in the margin. This version replaces all previous versions.

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