

SAFETY DATA SHEET

1. Identification

Product identifier: TEGO® Addbond LTH

Chemical name: Special Polyester resin

Other means of identification

Recommended use: Industrial use

Recommended restrictions: None known.

Manufacturer/Importer/Distributor Information

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2. Hazard(s) identification

Classification according to GHS

Health Hazards

Respiratory sensitizer Category 1

Skin sensitizer Category 1

Label Elements

Hazard Symbol:



Signal Word: Danger

Hazard Statement: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
May cause an allergic skin reaction.

Precautionary Statements

Prevention: Avoid breathing dust/fume/gas/mist/vapors/spray. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves. [In case of inadequate ventilation] wear respiratory protection.

Response: IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Specific treatment (see supplemental first aid instructions on this label). Take off contaminated clothing and wash it before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/ physician.

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:
Special Polyester resin

Substances

The exact concentration has been withheld as a trade secret.

4. First-aid measures

Description of necessary 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. If skin irritation persists, call a physician. After contact with molten product cool quickly with cold water Do not peel solidified product off the skin.
Eye contact:	In case of contact with eyes rinse thoroughly with water. In case of discomfort: Supply with medical care.
Ingestion:	Thoroughly clean the mouth with water 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:	Repeated or prolonged skin contact may cause skin irritation and/or dermatitis and sensitization of susceptible persons.
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: Keep away from sources of ignition. Take action to prevent static discharges. Dust may form explosive mixture with air. Cool endangered containers by water spray

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. Avoid dust formation.

Accidental release measures: No data available.

Methods and material for containment and cleaning up:

Use mechanical handling equipment. 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 (e.g. Local and general ventilation):

No data available.

Safe handling advice:

Provide good ventilation of working area (local exhaust ventilation if necessary). Avoid the formation and deposition of dust. Do not inhale dust/fumes/aerosols. Avoid contact with skin and eyes.

Contact avoidance measures:

No data available.

Storage

Safe storage conditions:

Keep container tightly closed in a cool, well-ventilated place.

Safe packaging materials:

No data available.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

Observe national threshold limit values.

Biological Limit Values

Observe national threshold limit values.

Appropriate Engineering Controls

No data available.

Individual protection measures, such as personal protective equipment

General information:

No data available.

Eye/face protection:

Safety glasses

Skin Protection

Hand Protection:

Additional Information: gloves made of nitril (NBR)

Other:

protective clothing

Respiratory Protection:

in case of formation of vapours/dusts: Short term: filter apparatus, Filter P1

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:	solid
Form:	Pellets
Color:	Colorless
Odor:	Slight
Odor Threshold:	not measured
Melting Point:	194 - 216 °F/90 - 102 °C
Boiling Point:	not measured
Flammability:	not measured

Upper/lower limit on flammability or explosive limits

Explosive limit - upper:	not measured
Explosive limit - lower:	not measured
Flash Point:	not measured
Autoignition Temperature:	not measured
Decomposition Temperature:	not measured
pH:	Not applicable
Viscosity	
Dynamic viscosity:	not measured
Kinematic viscosity:	not measured
Flow Time:	No data available.

Solubility(ies)

Solubility in Water:	Insoluble
Solubility (other):	not measured
Partition coefficient (n-octanol/water):	not measured
Vapor pressure:	not measured
Relative density:	not measured
Density:	Approximate 1.23 g/cm ³ (68 °F/20 °C)
Bulk density:	not measured
Vapor density (air=1):	not measured

Other information

Explosive properties:	not measured
Oxidizing properties:	not oxidizing
Minimum ignition temperature:	> 842 °F/> 450 °C (DIN 51794)
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:	Not known.
Hazardous Decomposition Products:	None with proper storage and handling.

11. Toxicological information

Information on toxicological effects

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:	No data available.
Components: phthalic anhydride	LD 50 (Rat): 1,530 mg/kg

Dermal

Product:	No data available.
Components: phthalic anhydride	LD 50 (Rabbit): > 3,160 mg/kg

Inhalation

Product:	No data available.
Components: phthalic anhydride	No data available., Dust and mist Not applicable, Vapour

Repeated dose toxicity

Product:	No data available.
Components: phthalic anhydride	No data available.

Skin Corrosion/Irritation

Product: No data available.
Components:
 phthalic anhydride OECD 404 (Rabbit): Irritating.

Serious Eye Damage/Eye Irritation

Product: No data available.
Components:
 phthalic anhydride OECD 405 (Rabbit): Risk of serious damage to eyes.

Respiratory or Skin Sensitization

Product: No data available.
Components:
 phthalic anhydride Maximization Test, OECD 406 (Guinea Pig): May cause sensitization by skin contact.
 Respiratory sensitizer (Guinea Pig): May cause sensitization by inhalation.

Carcinogenicity

Product: No data available.
Components:
 phthalic anhydride Not classified Did not show carcinogenic effects in animal experiments.

Germ Cell Mutagenicity

No data available.

In vitro

Product: Bacterial reverse mutation assay: negative;
Components:
 phthalic anhydride Ames test: negative

In vivo

Product: No data available.
Components:
 phthalic anhydride Micronucleus test Intraperitoneal (Mouse, Male): negative

Reproductive toxicity

Product: No data available.
Components:
 phthalic anhydride Not classified no evidence for hazardous properties

Specific Target Organ Toxicity - Single Exposure

Product: No data available.
Components:
 phthalic anhydride Inhalation - dust and mist: Respiratory system - Category 3 with respiratory tract irritation. May cause respiratory irritation.

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.
Components:
 phthalic anhydride Not classified

Aspiration Hazard

Product:	Not classified
Components:	
phthalic anhydride	Not applicable

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:	
phthalic anhydride	LC 50 (Danio rerio, 7 d): 560 mg/l

Aquatic Invertebrates

Product:	No data available.
Components:	
phthalic anhydride	EC 50 (Daphnia magna, 48 h): > 640 mg/l

Toxicity to Aquatic Plants

Product:	No data available.
Components:	
phthalic anhydride	No data available.

Toxicity to microorganisms

Product:	No data available.
Components:	
phthalic anhydride	EC 50 (activated sludge, 3 h): > 1,000 mg/l (ISO 8192) EC 50 (Pseudomonas putida, 16 h): 213 mg/l (DIN EN ISO 10712)

Toxicity to soil dwelling organisms

Product:	No data available.
Components:	
phthalic anhydride	No data available.

Toxicity to terrestrial organisms

Product:	No data available.
Components:	
phthalic anhydride	No data available.

Chronic hazards to the aquatic environment:

Fish

Product:	No data available.
Components:	
phthalic anhydride	NOEC (Oncorhynchus mykiss, 60 d): 10 mg/l (OECD 210) Lowest Observed Effect Concentration (Oncorhynchus mykiss, 60 d): 32 mg/l (OECD 210)

Aquatic Invertebrates

Product:	No data available.
Components:	
phthalic anhydride	NOEC (Daphnia magna, 21 d): 16 mg/l (OECD 211) EC 50 (Daphnia magna, 21 d): 42 mg/l (OECD 211)

Toxicity to Aquatic Plants

Product:	No data available.
Components:	
phthalic anhydride	NOEC (Desmodesmus subspicatus (green algae), 72 h): 100 mg/l (EU Method C.3) growth rate

Toxicity to microorganisms

Product:	No data available.
Components:	
phthalic anhydride	EC 50 (activated sludge, 3 h): > 1,000 mg/l (ISO 8192) EC 50 (Pseudomonas putida, 16 h): 213 mg/l (DIN EN ISO 10712)

Toxicity to soil dwelling organisms

Product:	No data available.
Components:	
phthalic anhydride	No data available.

Toxicity to terrestrial organisms

Product:	No data available.
Components:	
phthalic anhydride	No data available.

Persistence and Degradability
Biodegradation

Product:	No data available.
Components:	
phthalic anhydride	85 % (14 d, OECD 301 C) The product is easily biodegradable., aerobic 74 % (30 d, OECD 301 D) The product is easily biodegradable., aerobic

BOD/COD Ratio

Product:	No data available.
Components:	
phthalic anhydride	No data available.

Bioaccumulative potential
Bioconcentration Factor (BCF)

Product:	No data available.
Components:	
phthalic anhydride	Bioconcentration Factor (BCF): 3.4 (calculated)

Partition Coefficient n-octanol / water (log Kow)

Product:	Log Kow: not measured
Components:	
phthalic anhydride	Log Kow: 1.6

Mobility in soil:

Product
Components:
 phthalic anhydride

No data available.
 Log Koc: 1.49
 Log Koc: 0.3
 Log Koc: 0.3

Product
Components:
 phthalic anhydride

No data available.
 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

ADG
 Not regulated as a dangerous good

International Regulations

UNRTDG
 Not regulated as a dangerous good

IATA-DGR
 Not regulated as a dangerous good

IMDG-Code
 Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
 Not applicable for product as supplied.

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:** 13.10.2021**Version #:** 1.1**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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