

ZWALUW TIXOPLAST
Supersedes Date: 10-Jun-2021

Revision date 10-Jun-2021
Revision Number 1

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product Name ZWALUW TIXOPLAST
Pure substance/mixture Mixture

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use Adhesive.
Uses advised against None known.

1.3. Details of the supplier of the safety data sheet

Company Name

Bostik BV
De Voerman 8
PO Box 303
5215 MH's-Hertogenbosch, The Netherlands
Tel: +31 736 244 244
Fax: +31 736 244 344

E-mail address SDS.box-EU@bostik.com

1.4. Emergency telephone number

Emergency Telephone No information available

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

| | |
|--------------------------|---------------------|
| Flammable liquids | Category 3 - (H226) |
|--------------------------|---------------------|

2.2. Label elements



Signal word
Warning

Hazard statements
H226 - Flammable liquid and vapour.

EU Specific Hazard Statements
EUH066 - Repeated exposure may cause skin dryness or cracking

Precautionary Statements - EU (§28, 1272/2008)

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P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
P233 - Keep container tightly closed
P241 - Use explosion-proof electrical/ ventilating/ lighting/ equipment
P280 - Wear protective gloves
P370 + P378 - In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish
P403 + P235 - Store in a well-ventilated place. Keep cool
P501 - Dispose of contents/ container to an approved waste disposal plant

2.3. Other hazards

In use, may form flammable/explosive vapour-air mixture.

PBT & vPvB

This mixture contains no substance considered to be persistent, bioaccumulating or toxic (PBT). This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

| Chemical name | EC No. | CAS No. | Weight-% | Classification according to Regulation (EC) No. 1272/2008 [CLP] | Specific concentration limit (SCL) | REACH registration number |
|-----------------|-----------|----------|----------|---|------------------------------------|---------------------------|
| n-Butyl acetate | 204-658-1 | 123-86-4 | 10 - <20 | (EUH066) STOT SE 3 (H336) Flam. Liq. 3 (H226) | | 01-2119485493-29-XXXX |

Full text of H- and EUH-phrases: see section 16

Note: ^ indicates not classified, however, the substance is listed in section 3 as it has an OEL

This product does not contain candidate substances of very high concern at a concentration $\geq 0.1\%$ (Regulation (EC) No. 1907/2006 (REACH), Article 59)

SECTION 4: First aid measures

4.1. Description of first aid measures

| | |
|---|---|
| General advice | Show this safety data sheet to the doctor in attendance. |
| Inhalation | Remove to fresh air. IF exposed or concerned: Get medical advice/attention. |
| Eye contact | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. |
| Skin contact | Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. |
| Ingestion | Clean mouth with water. Do NOT induce vomiting. Drink 1 or 2 glasses of water. Never give anything by mouth to an unconscious person. |
| Self-protection of the first aider | Remove all sources of ignition. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of |

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contamination. Use personal protective equipment as required. See section 8 for more information.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms No information available.

4.3. Indication of any immediate medical attention and special treatment needed

Note to doctors Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media Dry chemical. Carbon dioxide (CO₂). Water spray. Alcohol resistant foam.

Unsuitable extinguishing media No information available.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical Risk of ignition. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Evacuate personnel to safe areas. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material.

Other information Ventilate the area.

For emergency responders Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

6.3. Methods and material for containment and cleaning up

Methods for containment Stop leak if you can do it without risk. Do not touch or walk through spilled material. A vapour suppressing foam may be used to reduce vapours. Dyke far ahead of spill to collect run-off water. Keep out of drains, sewers, ditches and waterways. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.

Methods for cleaning up Take precautionary measures against static discharges. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labelled containers.

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Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Reference to other sections See section 8 for more information. See section 13 for more information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling Use personal protection equipment. Avoid contact with skin and eyes. Avoid breathing vapours or mists. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Use with local exhaust ventilation. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers. Use according to package label instructions.

General hygiene considerations Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labelled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations. Store in accordance with local regulations.

Recommended storage temperature Keep at temperatures between 5 and 25 °C.

7.3. Specific end use(s)

Specific use(s)
Adhesive.

Identified uses

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

Other information Observe technical data sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits

Only European Community Occupational Exposure Limits will be shown in this document. Please refer to regional SDS for further information.

| Chemical name | European Union |
|-----------------------------|---|
| n-Butyl acetate 123-86-4 | TWA: 50 ppm TWA: 241 mg/m ³ STEL: 150 ppm STEL: 723 mg/m ³ |

Derived No Effect Level (DNEL) No information available

Derived No Effect Level (DNEL)

n-Butyl acetate (123-86-4)

| Type | Exposure route | Derived No Effect Level | Safety factor |
|------|----------------|-------------------------|---------------|
|------|----------------|-------------------------|---------------|

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| | | (DNEL) | |
|---|------------|-----------------------|--|
| worker Long term Systemic health effects | Inhalation | 300 mg/m ³ | |
| worker Short term Systemic health effects | Inhalation | 600 mg/m ³ | |
| worker Long term Local health effects | Inhalation | 300 mg/m ³ | |
| worker Short term Local health effects | Inhalation | 600 mg/m ³ | |
| worker Long term Systemic health effects | Dermal | 11 mg/kg bw/d | |

| Derived No Effect Level (DNEL) | | | |
|---|----------------|--------------------------------|---------------|
| n-Butyl acetate (123-86-4) | | | |
| Type | Exposure route | Derived No Effect Level (DNEL) | Safety factor |
| Consumer Long term Systemic health effects | Inhalation | 35.7 mg/m ³ | |
| Consumer Short term Systemic health effects | Inhalation | 300 mg/m ³ | |
| Consumer Long term Local health effects | Inhalation | 35.7 mg/m ³ | |
| Consumer Short term Local health effects | Inhalation | 300 mg/m ³ | |
| Consumer Long term Systemic health effects | Dermal | 6 mg/kg bw/d | |
| Consumer Short term Systemic health effects | Dermal | 6 mg/kg bw/d | |
| Consumer Long term Systemic health effects | Oral | 2 mg/kg bw/d | |

Predicted No Effect Concentration (PNEC) No information available.
(PNEC)

| Predicted No Effect Concentration (PNEC) | |
|--|--|
| n-Butyl acetate (123-86-4) | |
| Environmental compartment | Predicted No Effect Concentration (PNEC) |
| Freshwater | 0.18 mg/l |
| Marine water | 0.018 mg/l |
| Freshwater - intermittent | 0.36 mg/l |
| Sewage treatment plant | 35.6 mg/l |
| Freshwater sediment | 0.981 mg/l |
| Marine sediment | 0.0981 mg/l |
| Soil | 0.0903 mg/l |

8.2. Exposure controls

Engineering controls Ensure adequate ventilation, especially in confined areas.

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Personal protective equipment

| | |
|---------------------------------|--|
| Eye/face protection | Tight sealing safety goggles. |
| Hand protection | Wear protective gloves. The breakthrough time of the gloves depends on the material and the thickness as well as the temperature. |
| Skin and body protection | Suitable protective clothing. |
| Respiratory protection | In case of inadequate ventilation wear respiratory protection. In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit. |
| Recommended filter type: | Organic gases and vapours filter conforming to EN 14387. |

Environmental exposure controls No information available.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|------------------------|--------------------------|
| Physical state | Liquid |
| Appearance | Paste |
| Colour | Black |
| Odour | Characteristic |
| Odour threshold | No information available |

| Property | Values | Remarks • Method |
|--|----------------------------|-----------------------------------|
| pH | No data available | Not applicable Insoluble in water |
| pH (as aqueous solution) | No data available | |
| Melting point / freezing point | No data available | |
| Initial boiling point and boiling range | No data available | |
| Flash point | 56 °C | |
| Evaporation rate | No data available | |
| Flammability | Not applicable for liquids | |
| Flammability Limit in Air | | |
| Upper flammability or explosive limits | No data available | |
| Lower flammability or explosive limits | No data available | |
| Vapour pressure | No data available | |
| Relative vapour density | No data available | |
| Relative density | No data available | |
| Water solubility | No data available | |
| Solubility(ies) | No data available | |
| Partition coefficient | No data available | |
| Autoignition temperature | No data available | |
| Decomposition temperature | No data available | |
| Kinematic viscosity | No data available | |
| Dynamic viscosity | No data available | |
| Explosive properties | No data available | |
| Oxidising properties | No data available | |

9.2. Other information

| | | |
|--------------------------|--------------------------|---------------------------------|
| Solid content (%) | No information available | |
| VOC Content (%) | 157 g/L | European directive n°2010/75/UE |
| Density | 1.33 g/cm ³ | |

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity No information available.

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10.2. Chemical stability

Stability Stable under normal conditions.

Explosion data

Sensitivity to mechanical impact None.

Sensitivity to static discharge Yes.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

10.4. Conditions to avoid

Conditions to avoid Heat, flames and sparks.

10.5. Incompatible materials

Incompatible materials None known based on information supplied.

10.6. Hazardous decomposition products

Hazardous decomposition products None under normal use conditions. Stable under recommended storage conditions.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Information on likely routes of exposure

Product Information

Inhalation Based on available data, the classification criteria are not met.

Eye contact Based on available data, the classification criteria are not met.

Skin contact Based on available data, the classification criteria are not met.

Ingestion Based on available data, the classification criteria are not met.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms No information available.

Numerical measures of toxicity

Acute toxicity

Component Information

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|-----------------------------|-----------------------|---------------------------------------|-----------------------|
| n-Butyl acetate 123-86-4 | >10650 mg/kg (Rattus) | > 17600 mg/kg (Oryctolagus cuniculus) | =390 ppm (Rattus) 4 h |

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Based on available data, the classification criteria are not met.

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Serious eye damage/eye irritation Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

Germ cell mutagenicity Based on available data, the classification criteria are not met.

Carcinogenicity Based on available data, the classification criteria are not met.

Reproductive toxicity Based on available data, the classification criteria are not met.

STOT - single exposure Based on available data, the classification criteria are not met.

STOT - repeated exposure Based on available data, the classification criteria are not met.

Aspiration hazard Based on available data, the classification criteria are not met.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Endocrine disrupting properties No information available.

11.2.2. Other information

Other adverse effects No information available.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity

| Chemical name | Algae/aquatic plants | Fish | Toxicity to microorganisms | Crustacea | M-Factor | M-Factor (long-term) |
|-----------------------------|---|---|--|--|----------|----------------------|
| n-Butyl acetate 123-86-4 | EC50: =674.7mg/L (72h, Desmodesmus subspicatus) | LC50 96 h 17 - 19 mg/L (Pimephales promelas flow-through) | EC50 = 70.0 mg/L 5 min EC50 = 82.2 mg/L 15 min EC50 = 959 mg/L 18 h EC50 = 98.9 mg/L 30 min | EC50 48 h = 44 mg/L (Daphnia magna) | | |

12.2. Persistence and degradability

Persistence and degradability No information available.

12.3. Bioaccumulative potential

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Bioaccumulation There is no data for this product.

Component Information

| Chemical name | Partition coefficient | Bioconcentration factor (BCF) |
|-----------------------------|-----------------------|-------------------------------|
| n-Butyl acetate 123-86-4 | 1.81 | - |

12.4. Mobility in soil

Mobility in soil No information available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment

| Chemical name | PBT and vPvB assessment |
|-----------------------------|--|
| n-Butyl acetate 123-86-4 | The substance is not PBT / vPvB PBT assessment does not apply |

12.6. Other adverse effects

Other adverse effects No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused products Should not be released into the environment. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers.

European Waste Catalogue 08 04 09* waste adhesives and sealants containing organic solvents or other dangerous substances
15 01 10*: Packaging containing residues of or contaminated by dangerous substances

Other information Waste codes should be assigned by the user based on the application for which the product was used.

SECTION 14: Transport information

Land transport (ADR/RID)

| | |
|---------------------------------|----------------------------------|
| 14.1 UN number or ID number | UN1133 |
| 14.2 Proper Shipping Name | Adhesives |
| 14.3 Transport hazard class(es) | 3 |
| Labels | 3 |
| 14.4 Packing group | III |
| Description | UN1133, Adhesives, 3, III, (D/E) |
| 14.5 Environmental hazards | Not applicable |
| 14.6 Special Provisions | None |
| Classification code | F1 |
| Tunnel restriction code | (D/E) |
| Limited Quantity (LQ) | 5 L |
| ADR Hazard Id (Kemmler Number) | 30 |

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IMDG

| | | |
|---|--|----------------|
| 14.1 UN number or ID number | UN1133 | |
| 14.2 Proper Shipping Name | Adhesives | |
| 14.3 Transport hazard class(es) | 3 | |
| 14.4 Packing group | III | |
| Description | UN1133, Adhesives, 3, III, (56°C c.c.) | |
| 14.5 Marine pollutant | NP | |
| 14.6 Special Provisions | 223, 955 | |
| Limited Quantity (LQ) | 5 L | |
| EmS-No | F-E, S-D | |
| 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code | | Not applicable |

Air transport (ICAO-TI / IATA-DGR)

| | |
|---------------------------------|---------------------------|
| 14.1 UN number or ID number | UN1133 |
| 14.2 Proper Shipping Name | Adhesives |
| 14.3 Transport hazard class(es) | 3 |
| 14.4 Packing group | III |
| Description | UN1133, Adhesives, 3, III |
| 14.5 Environmental hazards | Not applicable |
| 14.6 Special Provisions | A3 |
| Limited Quantity (LQ) | 10 L |
| ERG Code | 3L |

Section 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

European Union

Registration, Evaluation, Authorization, and Restriction of Chemicals (REACH) Regulation (EC 1907/2006)

SVHC: Substances of Very High Concern for Authorisation:

This product does not contain candidate substances of very high concern at a concentration $\geq 0.1\%$ (Regulation (EC) No. 1907/2006 (REACH), Article 59)

EU-REACH (1907/2006) - Annex XVII - Substances subject to Restriction

This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII).

Substance subject to authorisation per REACH Annex XIV

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV)

Dangerous substance category per Seveso Directive (2012/18/EU)

P5a - FLAMMABLE LIQUIDS

P5b - FLAMMABLE LIQUIDS

P5c - FLAMMABLE LIQUIDS

Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

Persistent Organic Pollutants

Not applicable

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National regulations

France

Occupational Illnesses (R-463-3, France)

| Chemical name | French RG number |
|-----------------------------|------------------|
| n-Butyl acetate 123-86-4 | RG 84 |

Germany

Ordinance on Industrial Safety and Health - Germany - BetrSichV

No flammable liquids in accordance with BetrSichV

Water hazard class (WGK) slightly hazardous to water (WGK 1)

Netherlands

List of Carcinogenic, mutagenic and reproductive toxin substances in accordance with Inspectorate SZW (Netherlands)

Not Listed

Denmark

Registration number(s) (P-no.) No information available

Norway

Registration number(s) (PRN-no.) No information available

15.2. Chemical safety assessment

Chemical Safety Assessments have been carried out by the Reach registrants for substances registered at >10 tpa. No Chemical Safety Assessment has been carried out for this mixture.

SECTION 16: Other information

Key or legend to abbreviations and acronyms used in the safety data sheet

Full text of H-Statements referred to under section 3

EUH066 - Repeated exposure may cause skin dryness or cracking

H226 - Flammable liquid and vapour

H336 - May cause drowsiness or dizziness

Legend

| | |
|---------|---|
| TWA | TWA (time-weighted average) |
| STEL | STEL (Short Term Exposure Limit) |
| Ceiling | Ceiling Limit Value |
| * | Skin designation |
| SVHC | Substance(s) of Very High Concern |
| PBT | Persistent, Bioaccumulative, and Toxic (PBT) Chemicals |
| vPvB | Very Persistent and very Bioaccumulative (vPvB) Chemicals |
| STOT RE | Specific target organ toxicity - Repeated exposure |
| STOT SE | Specific target organ toxicity - Single exposure |
| EWC | European Waste Catalogue |

Key literature references and sources for data

No information available

Prepared By Product Safety & Regulatory Affairs

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| | |
|-------------------------------------|--------------------------|
| Revision date | 10-Jun-2021 |
| <u>Indication of changes</u> | |
| Revision note | Not applicable. |
| Training Advice | No information available |
| Further information | No information available |

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

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet