

according to 29 CFR 1910.1200(g)

# DruckWege Type D Tough

Revision date: 07.07.2020

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1. Identification

## Product identifier

DruckWege Type D Tough

## Recommended use of the chemical and restrictions on use

#### Use of the substance/mixture

3D Printing resin

#### Uses advised against

Not for intraoral area.

#### Details of the supplier of the safety data sheet

| Company name:           | DruckWege GmbH                                                  |                              |
|-------------------------|-----------------------------------------------------------------|------------------------------|
| Street:                 | Schulstr. 38                                                    |                              |
| Place:                  | D-53773 Hennef                                                  |                              |
| Telephone:              | +49 2242 9185 137                                               |                              |
| e-mail:                 | mail@druckwege.de                                               |                              |
| Contact person:         | Florian Reil / Anton Gillert                                    | Telephone: +49 2242 9185 137 |
| Emergency phone number: | Emergency telephone: +49 (0)89 41407483 (24 h, Munich, Germany) |                              |

## 2. Hazard(s) identification

## **Classification of the chemical**

#### 29 CFR Part 1910.1200

Skin corrosion/irritation: Skin Irrit. 2 Serious eye damage/eye irritation: Eye Irrit. 2A Respiratory or skin sensitization: Skin Sens. 1A Reproductive toxicity: Repr. 2

#### Label elements

#### 29 CFR Part 1910.1200

Signal word:

Warning

**Pictograms:** 



#### **Hazard statements**

Causes skin irritation May cause an allergic skin reaction Causes serious eye irritation Suspected of damaging fertility or the unborn child

#### **Precautionary statements**

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Avoid breathing dust/fume/gas/mist/vapors/spray.

Wash hands thoroughly after handling.

Contaminated work clothing must not be allowed out of the workplace.

Wear protective gloves/protective clothing/eye protection/face protection.

If on skin: Wash with plenty of soap and water.

Take off contaminated clothing and wash it before reuse.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.



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Continue rinsing.

If eye irritation persists: Get medical advice/attention. If exposed or concerned: Get medical advice/attention. Store locked up.

Dispose of waste according to applicable legislation.

# Hazards not otherwise classified

No information available.

### 3. Composition/information on ingredients

## <u>Mixtures</u>

#### Hazardous components

| CAS No      | Components                                                                                                                    | Quantity |
|-------------|-------------------------------------------------------------------------------------------------------------------------------|----------|
| 72869-86-4  | 7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate                                | 76 %     |
| 13048-33-4  | hexamethylene diacrylate; hexane-1,6-diol diacrylate                                                                          | 20 %     |
| 75980-60-8  | diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide                                                                               | 2.994 %  |
| 159034-91-0 | Propylidynetrimethanol, ethoxylated, esters with acrylic acid, reaction products withdiethylamine (1 - 6.5 moles ethoxylated) | 0.9975 % |

#### 4. First-aid measures

#### Description of first aid measures

#### **General information**

When in doubt or if symptoms are observed, get medical advice.

#### After inhalation

Provide fresh air. If experiencing respiratory symptoms: Get medical advice/attention. If breathing is irregular or stopped, administer artificial respiration.

#### After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. In case of skin reactions, consult a physician.

#### After contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately. Remove contact lenses, if present and easy to do. Continue rinsing.

#### After ingestion

Observe risk of aspiration if vomiting occurs. Do NOT induce vomiting. Rinse mouth immediately and drink 1 glass of of water. Get medical advice/attention if you feel unwell. Never give anything by mouth to an unconscious person or a person with cramps.

# Most important symptoms and effects, both acute and delayed

Allergic reactions, Irritating to eyes and skin.

Suspected of damaging fertility or the unborn child.

## Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## 5. Fire-fighting measures

# Extinguishing media

# Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

## Specific hazards arising from the chemical

Non-flammable. In case of fire may be liberated: Gases/vapors, toxic



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#### Special protective equipment and precautions for fire-fighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

#### Additional information

Supress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

#### 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Do not breathe gas/fume/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment. Evacuate area.

#### Environmental precautions

Do not allow to enter into surface water or drains.

## Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

#### Reference to other sections

Safe handling: see section 7 Personal protection equipment (PPE): see section 8 Disposal: see section 13

## 7. Handling and storage

## Precautions for safe handling

#### Advice on safe handling

Provide adequate ventilation. Do not breathe gas/fume/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

# Advice on protection against fire and explosion

Usual measures for fire prevention.

## Conditions for safe storage, including any incompatibilities

## Requirements for storage rooms and vessels

Keep container tightly closed.

#### Hints on joint storage

No special measures are necessary.

#### Further information on storage conditions

Protect against: UV-radiation/sunlight

#### 8. Exposure controls/personal protection

#### **Control parameters**

#### **Exposure limits**

| CAS No. | Substance                                                                             | ppm            | mg/m³ | f/cc | Category  | Origin     |
|---------|---------------------------------------------------------------------------------------|----------------|-------|------|-----------|------------|
| -       | Particles (insoluble or poorly soluble) not otherwise specified (inhalable fraction)  |                | 10    |      | TWA (8 h) | ACGIH-2019 |
| -       | Particles (insoluble or poorly soluble) not otherwise specified (respirable fraction) |                | 3     |      | TWA (8 h) | ACGIH-2019 |
| -       | Particulates not Otherwise regulated (PNOR)<br>Respirable fraction                    | 529.5<br>mp/m³ | 5     |      | TWA (8 h) | PEL        |
| -       | Particulates not Otherwise regulated (PNOR)<br>Total dust                             | 1765<br>mp/m³  | 15    |      | TWA (8 h) | PEL        |

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## Exposure controls





#### Appropriate engineering controls

Provide adequate ventilation as well as local exhaustion at critical locations.

#### Protective and hygiene measures

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat, drink, smoke, sniff.

#### Eye/face protection

Wear eye/face protection.

#### Hand protection

#### Wear suitable gloves.

The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

#### Skin protection

Use of protective clothing.

#### **Respiratory protection**

In case of inadequate ventilation wear respiratory protection.

#### **Environmental exposure controls**

Do not allow to enter into surface water or drains.

#### 9. Physical and chemical properties

#### Information on basic physical and chemical properties

| ·· · · · · · · · · · · · · · · · · · ·                         |                                  |                |  |
|----------------------------------------------------------------|----------------------------------|----------------|--|
| Auto-ignition temperature<br>Solid:                            |                                  | not applicable |  |
| Ignition temperature:                                          |                                  | > 230 °C       |  |
| Upper explosion limits:                                        |                                  | not determined |  |
| Lower explosion limits:                                        |                                  | not determined |  |
| Explosive properties<br>The product is not: Explosive.         |                                  |                |  |
| Gas:                                                           |                                  | not applicable |  |
| Flammability<br>Solid:                                         |                                  | not applicable |  |
| Flash point:                                                   |                                  | not determined |  |
| Initial boiling point and boiling range:                       |                                  | > 100 °C       |  |
| Changes in the physical state<br>Melting point/freezing point: |                                  | not determined |  |
| pH-Value:                                                      |                                  | not determined |  |
| Odor:<br>Odour threshold:                                      | like: Acrylate<br>not determined |                |  |
| Color:                                                         | various                          |                |  |
| Physical state:                                                | Liquid                           |                |  |



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Revision date: 07.07.2020 Page 5 of 10 Gas not applicable Decomposition temperature: not determined **Oxidizing properties** Not oxidising. Vapor pressure: <1hPa (at 20 °C) not determined Density: Water solubility: poorly soluble Solubility in other solvents not determined Partition coefficient: not determined Viscosity / dynamic: not determined Viscosity / kinematic: not determined not determined Vapor density: Evaporation rate: not determined **Other information** No information available.

# 10. Stability and reactivity

#### **Reactivity**

No hazardous reaction when handled and stored according to provisions.

#### **Chemical stability**

Stability:

Stable

The product is stable under storage at normal ambient temperatures.

#### Possibility of hazardous reactions

Hazardous reactions:

Will not occur

No known hazardous reactions.

## Conditions to avoid

UV-radiation/sunlight

# Incompatible materials

No information available.

# Hazardous decomposition products

In case of fire may be liberated: Gases/vapors, toxic

# 11. Toxicological information

# Information on toxicological effects

# Route(s) of Entry

oral, dermal, inhalative, Eye contact

## Acute toxicity

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

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| CAS No     | Components                                                |                |                          |                  |                               |          |
|------------|-----------------------------------------------------------|----------------|--------------------------|------------------|-------------------------------|----------|
|            | Exposure route                                            | Dose           |                          | Species          | Source                        | Method   |
| 72869-86-4 | 7,7,9(or 7,9,9)-trimeth                                   | yl-4,13-dioxo- | - <b>3,14-dioxa-5</b> ,1 | 12-diazahexadeca | ane-1,16-diyl bismethacrylate |          |
|            | oral                                                      | LD50<br>mg/kg  | > 5000                   | Rat              | Manufacturer                  | OECD 401 |
|            | dermal                                                    | LD50<br>mg/kg  | > 2000                   | Rat              | Manufacturer                  | OECD 402 |
| 13048-33-4 | 33-4 hexamethylene diacrylate; hexane-1,6-diol diacrylate |                |                          |                  |                               |          |
|            | oral                                                      | LD50<br>mg/kg  | 5000                     | Rat              | Manufacturer                  |          |
|            | dermal                                                    | LD50<br>mg/kg  | 3650                     | Rabbit           | Manufacturer                  | OECD 402 |
| 75980-60-8 | diphenyl(2,4,6-trimeth                                    | ylbenzoyl)pho  | osphine oxide            |                  |                               |          |
|            | oral                                                      | LD50<br>mg/kg  | > 5000                   | Rat              | Manufacturer                  |          |
|            | dermal                                                    | LD50<br>mg/kg  | > 2000                   | Rat              | Manufacturer                  |          |

## Irritation and corrosivity

Causes skin irritation

Causes serious eye irritation

#### Sensitizing effects

May cause an allergic skin reaction (7,7,9(or

7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate; hexamethylene diacrylate; hexane-1,6-diol diacrylate; diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide; Propylidynetrimethanol, ethoxylated, esters with acrylic acid, reaction products withdiethylamine (1 - 6.5 moles ethoxylated))

#### Carcinogenic/mutagenic/toxic effects for reproduction

Suspected of damaging fertility or the unborn child (diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide) Germ cell mutagenicity: Based on available data, the classification criteria are not met. Carcinogenicity: Based on available data, the classification criteria are not met.

## Specific target organ toxicity (STOT) - single exposure

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

#### Specific target organ toxicity (STOT) - repeated exposure

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

| Carcinogenicity (OSHA): | No ingredient of this mixture is listed. |
|-------------------------|------------------------------------------|
| Carcinogenicity (IARC): | No ingredient of this mixture is listed. |
| Carcinogenicity (NTP):  | No ingredient of this mixture is listed. |

#### Aspiration hazard

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

# 12. Ecological information

#### **Ecotoxicity**

Toxic to aquatic life with long lasting effects.

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| CAS No     | Components                                           |                                                                                                |                                        |              |          |
|------------|------------------------------------------------------|------------------------------------------------------------------------------------------------|----------------------------------------|--------------|----------|
|            | Aquatic toxicity                                     | Dose                                                                                           | [h]   [d] Species                      | Source       | Method   |
| 72869-86-4 | 7,7,9(or 7,9,9)-trimethyl-4                          | 7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate |                                        |              |          |
|            | Acute crustacea<br>toxicity                          | EC50 > 1,2<br>mg/l                                                                             | 48 h Daphnia magna (Big<br>water flea) | Manufacturer | OECD 202 |
| 13048-33-4 | hexamethylene diacrylate; hexane-1,6-diol diacrylate |                                                                                                |                                        |              |          |
|            | Acute bacteria toxicity                              | (270 mg/l)                                                                                     | 0,5 h Activated sludge                 | Manufacturer | OECD 209 |
| 75980-60-8 | diphenyl(2,4,6-trimethylbe                           | enzoyl)phosphine oxide                                                                         |                                        |              |          |
|            | Acute algae toxicity                                 | ErC50 > 2,01<br>mg/l                                                                           | 72 h Scenedesmus<br>subspicatus        | Manufacturer |          |
|            | Acute crustacea<br>toxicity                          | EC50 3,53<br>mg/l                                                                              | 48 h Daphnia magna (Big<br>water flea) | Manufacturer |          |
|            | Acute bacteria toxicity                              | (> 1000 mg/l)                                                                                  | 3 h Activated sludge                   | Manufacturer |          |

# Persistence and degradability

The product has not been tested.

## **Bioaccumulative potential**

The product has not been tested.

## Partition coefficient n-octanol/water

| CAS No     | Components                                                                                     | Log Pow |
|------------|------------------------------------------------------------------------------------------------|---------|
| 72869-86-4 | 7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate | 3,39    |
| 13048-33-4 | hexamethylene diacrylate; hexane-1,6-diol diacrylate                                           | 2,81    |
| 75980-60-8 | diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide                                                | 3,1     |

## BCF

| CAS No     | Components                                          | BCF | Species                               | Source       |
|------------|-----------------------------------------------------|-----|---------------------------------------|--------------|
| 75980-60-8 | diphenyl(2,4,6-trimethylbenzoyl)phosph<br>ine oxide |     | Cyprinus carpio (Common<br>Carp) fish | Manufacturer |

# Mobility in soil

The product has not been tested.

#### Other adverse effects

No information available.

## **Further information**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

#### 13. Disposal considerations

## Waste treatment methods

#### **Disposal recommendations**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

## Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

# 14. Transport information

#### US DOT 49 CFR 172.101

UN/ID number:

UN 3082



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|                                                    | DruckWege Type D Tough                                                                                                                                       |          |
|----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
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| Proper shipping name:                              | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (7,7,9(or                                                                                                |          |
|                                                    | 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate; hexamethylene diacrylate; hexane-1,6-diol diacrylate)                 |          |
| Transport hazard class(es):                        | 9                                                                                                                                                            |          |
| Packing group:                                     | III                                                                                                                                                          |          |
| Hazard label:                                      | 9                                                                                                                                                            |          |
|                                                    |                                                                                                                                                              |          |
| Marine transport (IMDG)                            |                                                                                                                                                              |          |
| <u>UN number:</u>                                  | UN 3082                                                                                                                                                      |          |
| UN proper shipping name:                           | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.                                                                                                          |          |
|                                                    | (7,7,9(or<br>7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl<br>bismethacrylate; hexamethylene diacrylate; hexane-1,6-diol diacrylate) |          |
| Transport hazard class(es):                        | 9                                                                                                                                                            |          |
| Packing group:                                     | 111                                                                                                                                                          |          |
| Hazard label:                                      | 9                                                                                                                                                            |          |
|                                                    |                                                                                                                                                              |          |
| Special Provisions:                                | 274, 335, 969                                                                                                                                                |          |
| Limited quantity:                                  | 5 L                                                                                                                                                          |          |
| Excepted quantity:                                 | E1                                                                                                                                                           |          |
| EmS:                                               | F-A, S-F                                                                                                                                                     |          |
| Air transport (ICAO-TI/IATA-DGR)                   |                                                                                                                                                              |          |
| <u>UN number:</u>                                  | UN 3082                                                                                                                                                      |          |
| UN proper shipping name:                           | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.<br>(7,7,9(or                                                                                             |          |
|                                                    | 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate; hexamethylene diacrylate; hexane-1,6-diol diacrylate)                 |          |
| Transport hazard class(es):                        | 9                                                                                                                                                            |          |
| Packing group:                                     | 111                                                                                                                                                          |          |
| Hazard label:                                      | 9                                                                                                                                                            |          |
|                                                    |                                                                                                                                                              |          |
|                                                    | 9                                                                                                                                                            |          |
| Special Provisions:<br>Limited quantity Passenger: | A97 A158 A197<br>30 kg G                                                                                                                                     |          |
| Passenger LQ:                                      | Y964                                                                                                                                                         |          |
| Excepted quantity:                                 | E1                                                                                                                                                           |          |
| IATA-packing instructions - Passenger:             | 964                                                                                                                                                          |          |
| IATA-max. quantity - Passenger:                    | 450 L                                                                                                                                                        |          |
| IATA-packing instructions - Cargo:                 | 964                                                                                                                                                          |          |
| IATA-max. quantity - Cargo:                        | 450 L                                                                                                                                                        |          |

# Environmental hazards



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## 15. Regulatory information

## **U.S. Regulations**

## National Inventory TSCA

7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate: Yes. hexamethylene diacrylate; hexane-1,6-diol diacrylate: Yes.

diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide: Yes.

Propylidynetrimethanol, ethoxylated, esters with acrylic acid, reaction products withdiethylamine (1 - 6.5 moles ethoxylated): No.

#### National regulatory information

SARA Section 311/312 Hazards:

7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate (72869-86 -4): Immediate (acute) health hazard

hexamethylene diacrylate; hexane-1,6-diol diacrylate (13048-33-4); Immediate (acute) health hazard diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide (75980-60-8): Immediate (acute) health hazard Propylidynetrimethanol, ethoxylated, esters with acrylic acid, reaction products withdiethylamine (1 - 6.5 moles ethoxylated) (159034-91-0): Immediate (acute) health hazard

# State Regulations

## Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65, State of California)

This product can not expose you to chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

## 16. Other information

| Hazardous Materials Information                          | Label (HMIS)         |  |  |
|----------------------------------------------------------|----------------------|--|--|
| Health:                                                  | *2                   |  |  |
| Flammability:                                            | 1                    |  |  |
| Physical Hazard:                                         | 0                    |  |  |
| NFPA Hazard Ratings                                      |                      |  |  |
| Health:                                                  | 2                    |  |  |
| Flammability:                                            | 1                    |  |  |
| Reactivity:                                              | 0                    |  |  |
| Unique Hazard:                                           |                      |  |  |
| Revision date:                                           | 07.07.2020           |  |  |
| Revision No:                                             | 1,0                  |  |  |
| Abbreviations and acronyms<br>ACGIH: American Conference | of Governmental Indu |  |  |
| OFR Order of Fridayal Regulations                        |                      |  |  |



ustrial Hygienists

CFR: Code of Federal Regulations

DOT: Department of Transportation

ICAO: International Civil Aviation Organization



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IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association IARC: International Agency for Research on Cancer GHS: Globally Harmonized System of Classification and Labelling of Chemicals CAS: Chemical Abstracts Service NFPA: National Fire Protection Association NTP: National Toxicology Program OSHA: Occupational Safety and Health Administration PEL: permissible exposure limit **REL:** recommended exposure limit SARA: Superfund Amendments and Reauthorization Act STEL: Short-term exposure limit **TSCA:** Toxic Substances Control Act TWA: time-weighted average **TI: Technical Instructions** DGR: Dangerous Goods Regulations **UN: United Nations** ATE: Acute toxicity estimate LC50: Lethal concentration, 50% LD50: Lethal dose, 50% LL50: Lethal loading, 50% EL50: Effect loading, 50% EC50: Effective Concentration 50% ErC50: Effective Concentration 50%, growth rate NOEC: No Observed Effect Concentration BCF: Bio-concentration factor MARPOL: International Convention for the Prevention of Marine Pollution from Ships IBC: Intermediate Bulk Container VOC: Volatile Organic Compounds

#### Other data

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)