

Product name: TEGO® Dispers 710

SAFETY DATA SHEET

Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567

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

1.1 Product identifier

Product name:
TEGO® Dispers 710

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

Identified uses: Industrial use

Uses advised against: None known.

1.3 Details of the supplier of the safety data sheet

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

1.4 Emergency telephone number:

24-Hour Health : +49 2365 49 2232
Emergency : +49 2365 49 4423 (Fax)

National Poison Information Service (NPIS)
England, Scotland and Wales: NHS: 111

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

The product has been classified according to the legislation in force.

Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567

Physical Hazards

| | | |
|-------------------|------------|-----------------------------------|
| Flammable liquids | Category 3 | H226: Flammable liquid and vapor. |
|-------------------|------------|-----------------------------------|

Health Hazards

| | | |
|--|------------|--|
| Serious eye irritation | Category 2 | H319: Causes serious eye irritation. |
| Specific Target Organ Toxicity - Single Exposure | Category 3 | H336: May cause drowsiness or dizziness. |

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2.2 Label Elements


Signal Words:

Warning

Hazard Statement(s):

 H226: Flammable liquid and vapor.
 H319: Causes serious eye irritation.
 H336: May cause drowsiness or dizziness.

Precautionary Statements
Prevention:

 P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P261: Avoid breathing dust/fume/gas/mist/vapors/spray.
 P280: Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

 P312: Call a POISON CENTER or doctor/ physician if you feel unwell.
 P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P337+P313: If eye irritation persists: Get medical advice/attention.

Hazardous ingredients which must be listed on the label:

 2-methoxy-1-methylethyl acetate
 Butyl acetate

Supplemental label information

Restricted to professional users.

2.3 Other hazards

None known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

| Chemical name | Concentration | CAS-No. | EC No. | UK-REACH Registration No. | REACH Registration No. | M-Factor: | Notes |
|---------------------------------|---------------|----------|-----------|---------------------------|------------------------|--------------------|-------|
| 2-methoxy-1-methylethyl acetate | 20 - <50% | 108-65-6 | 203-603-9 | | 01-211947579-1-29 | No data available. | # |
| Butyl acetate | 10 - <20% | 123-86-4 | 204-658-1 | - | 01-211948549-3-29 | No data available. | # |

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| | | | | | | | |
|-------------------------|-------------|------------|-----------|--|------------------|--------------------|---|
| isobutanol | 1 - <3% | 78-83-1 | 201-148-0 | | 01-2119484609-23 | No data available. | # |
| 2-methoxypropyl acetate | 0.1 - <0.3% | 70657-70-4 | 274-724-2 | | - | No data available. | |

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

This substance has workplace exposure limit(s).

This substance is listed as SVHC.

Classification

| Chemical name | Classification | Notes |
|---------------------------------|---|-------|
| 2-methoxy-1-methylethyl acetate | Classification: Flam. Liq.: 3: H226; STOT SE: 3: H336; Supplemental label information: None known. | None. |
| Butyl acetate | Classification: Flam. Liq.: 3: H226; STOT SE: 3: H336; Supplemental label information: EUH066; | None. |
| isobutanol | Classification: Flam. Liq.: 3: H226; Skin Irrit.: 2: H315; Eye Dam.: 1: H318; STOT SE: 3: H335 H336; Supplemental label information: None known. | None. |
| 2-methoxypropyl acetate | Classification: Flam. Liq.: 3: H226; Repr.: 1B: H360D; STOT SE: 3: H335; Supplemental label information: None known. | None. |

The full text for all H-statements is displayed in section 16.

SECTION 4: First aid measures
4.1 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: | Thoroughly clean the mouth with water In case of discomfort: Supply with medical care. |
| Personal Protection for First-aid Responders: | No data available. |

4.2 Most important symptoms and effects, both acute and delayed

| | |
|------------------|---|
| Symptoms: | Serious eye irritation Depending on the dose inhalation and/or ingestion may cause: headache, inebriation, unconsciousness. |
| Hazards: | No data available. |

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4.3 Indication of immediate medical attention and special treatment needed

Treatment: Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

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

Unsuitable extinguishing media: High volume water jet.

5.2 Special hazards arising from the substance or mixture:

In the event of fire the following can be released: - carbon dioxide, carbon monoxide - Nitrogen oxides (NOx) Under certain conditions of combustion traces of other toxic substances cannot be excluded

5.3 Advice for firefighters

Special fire fighting procedures: Keep away from sources of ignition. Take action to prevent static discharges. Vapours may form explosive mixtures with air. Cool endangered containers by water spray

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

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

Use personal protective equipment. Keep away sources of ignition. Ensure adequate ventilation.

6.1.1 For non-emergency personnel:

No data available.

6.1.2 For emergency responders:

No data available.

6.2 Environmental Precautions:

Do not allow to enter drains or waterways Prevent product from getting into subsoil/soil.

6.3 Methods and material for containment and cleaning up:

Take up with absorbent material (eg sand, diatomaceous earth, universal binder) Dispose of absorbed material in accordance with the regulations.

6.4 Reference to other sections:

For further information on exposure monitoring and disposal see sections 8 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe 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). Do not inhale gases/vapours/aerosols. Avoid contact with skin and eyes.

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Contact avoidance measures: No data available.

7.2 Conditions for safe storage, including any incompatibilities
Safe storage conditions: Keep container tightly closed in a cool, well-ventilated place. Do not store together with oxidizing agents.

Safe packaging materials: No data available.

7.3 Specific end use(s): No further recommendations.

SECTION 8: Exposure controls/personal protection
8.1 Control Parameters
Occupational Exposure Limits

| Chemical name | Type | Form of exposure | Exposure Limit Values | | Source |
|---------------------------------|--------------------|------------------|-----------------------|-----------------------|--------------------|
| | | | | | |
| 2-methoxy-1-methylethyl acetate | TWA | | 50 ppm | 274 mg/m ³ | EH40 WEL (12 2011) |
| | STEL 15 minutes | | 100 ppm | 548 mg/m ³ | EH40 WEL (01 2020) |
| Butyl acetate | TWA | | 150 ppm | 724 mg/m ³ | EH40 WEL (12 2011) |
| | STEL 15 minutes | | 200 ppm | 966 mg/m ³ | EH40 WEL (01 2020) |
| isobutanol | STEL 15 minutes | | 75 ppm | 231 mg/m ³ | EH40 WEL (01 2020) |
| | TWA | | 50 ppm | 154 mg/m ³ | EH40 WEL (12 2011) |

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).

DNEL-Values

Remarks: DNEL-Values

| Critical component | Type | Route of Exposure | Health Warnings | Remarks |
|---------------------------------|--------------------|-------------------|---|------------------------------|
| 2-methoxy-1-methylethyl acetate | General population | Dermal | Systemic, long-term; 320 mg/kg | Repeated dose toxicity |
| | Workers | Inhalation | Systemic, long-term; 275 mg/m ³ | irritation respiratory tract |
| | Workers | Dermal | Systemic, long-term; 796 mg/kg | Repeated dose toxicity |
| | General population | Oral | Systemic, long-term; 36 mg/kg | Repeated dose toxicity |
| | General population | Inhalation | Systemic, long-term; 33 mg/m ³ | irritation respiratory tract |
| | General population | Eyes | Local effect; | No hazard identified |
| Butyl acetate | Workers | Eyes | Local effect; | No hazard identified |
| | General population | Inhalation | Local, long-term; 33 mg/m ³ | irritation respiratory tract |
| | Workers | Inhalation | Local, short-term; 550 mg/m ³ | irritation respiratory tract |
| | Workers | Dermal | Systemic, short-term; 11 mg/kg | Neurotoxicity |
| | General population | Inhalation | Systemic, long-term; 12 mg/m ³ | Repeated dose toxicity |
| | General population | Dermal | Systemic, long-term; 6 mg/kg | Neurotoxicity |
| | General population | Inhalation | Systemic, long-term; 35.7 mg/m ³ | irritation respiratory tract |

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|------------|--------------------|------------|---|--------------------------------------|
| | Workers | Inhalation | Local, short-term; 600 mg/m ³ | irritation respiratory tract |
| | General population | Oral | Systemic, long-term; 2 mg/kg | Neurotoxicity |
| | Workers | Inhalation | Local, long-term; 300 mg/m ³ | irritation respiratory tract |
| | General population | Inhalation | Systemic, short-term; 300 mg/m ³ | irritation respiratory tract |
| | General population | Inhalation | Local, long-term; 35.7 mg/m ³ | irritation respiratory tract |
| | Workers | Inhalation | Systemic, long-term; 300 mg/m ³ | irritation respiratory tract |
| | Workers | Inhalation | Systemic, short-term; 600 mg/m ³ | irritation respiratory tract |
| | Workers | Dermal | Systemic, long-term; 11 mg/kg | Neurotoxicity |
| | General population | Inhalation | Local, short-term; 300 mg/m ³ | irritation respiratory tract |
| | Workers | Inhalation | Systemic, long-term; 48 mg/m ³ | Repeated dose toxicity |
| | General population | Dermal | Systemic, long-term; 3.4 mg/kg | Repeated dose toxicity |
| | Workers | Eyes | Local effect; | No hazard identified |
| | Workers | Dermal | Systemic, long-term; 7 mg/kg | Repeated dose toxicity |
| | General population | Dermal | Systemic, short-term; 6 mg/kg | Neurotoxicity |
| | General population | Eyes | Local effect; | No hazard identified |
| | General population | Oral | Systemic, short-term; 2 mg/kg | Neurotoxicity |
| | General population | Oral | Systemic, long-term; 3.4 mg/kg | Repeated dose toxicity |
| isobutanol | General population | Eyes | Local effect; | Medium hazard (no threshold derived) |
| | Workers | Inhalation | Local, long-term; 310 mg/m ³ | |
| | Workers | Eyes | Local effect; | Medium hazard (no threshold derived) |
| | General population | Inhalation | Local, long-term; 55 mg/m ³ | |

PNEC-Values

Remarks: PNEC-Values

| Critical component | Environmental compartment | PNEC-Values | Remarks |
|---------------------------------|---------------------------|-------------|---------|
| 2-methoxy-1-methylethyl acetate | Aquatic (marine water) | 0.064 mg/l | |
| | Sewage treatment plant | 100 mg/l | |
| | Sediment (marine water) | 0.329 mg/kg | |
| | Aquatic (freshwater) | 0.635 mg/l | |
| | Soil | 0.29 mg/kg | Soil |
| Butyl acetate | Sediment (freshwater) | 3.29 mg/kg | |
| | Sediment (freshwater) | 0.981 mg/kg | |
| | Soil | 0.09 mg/kg | Soil |
| | Aquatic (freshwater) | 0.18 mg/l | |
| | Sediment (marine water) | 0.098 mg/kg | |
| | Sewage treatment plant | 35.6 mg/l | |
| | Sediment (freshwater) | 0.981 mg/kg | |

8.2 Exposure controls
Appropriate Engineering Controls: No data available.

Individual protection measures, such as personal protective equipment (PPE)
Eye/face protection: Safety glasses

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|----------------------------------|--|
| Hand Protection: | Material: Nitrile rubber. Break-through time: 480 min Glove thickness: 0.11 mm Material: Natural rubber. Break-through time: 480 min Glove thickness: 0.5 mm Material: Chloroprene Break-through time: 480 min Glove thickness: 0.65 mm Material: Butyl rubber. Break-through time: 480 min Glove thickness: 0.7 mm |
| Skin and Body Protection: | 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 at the end of workday. When using do not eat, drink or smoke. Remove soiled or soaked clothing immediately. |
| Environmental Controls: | The environmental regulations on the control and monitoring of environmental exposures are to be observed. |

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| SECTION 9: Physical and chemical properties |
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9.1 Information on basic physical and chemical properties
Appearance

| | |
|--|---|
| Physical state: | liquid |
| Form: | liquid |
| Color: | yellowish |
| Odor: | solvent-like |
| Odor Threshold: | not measured |
| Freezing point: | not measured |
| 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: | Approximate 34 °C Method: DIN 53213 |
| Auto-ignition temperature: | 400 °C Method: DIN 51794 |
| Decomposition Temperature: | not measured |
| pH: | Not applicable |

Viscosity

| | |
|-----------------------------|---|
| Dynamic viscosity: | 150 - 350 mPa.s at 25 °C Method: DIN 53015 |
| Kinematic viscosity: | 143 - 333 mm ² /s at 25 °C , |

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| | |
|---|---|
| | Method: calculated |
| 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: | 1.01 - 1.05 g/cm ³ at 25 °C Method: DIN 12791 |
| Relative vapor density: | not measured |

9.2 Other information

| | |
|------------------------------|-------------------------|
| Explosive properties: | not measured |
| Oxidizing properties: | not oxidizing |
| Self-ignition: | not measured |
| Metal Corrosion: | Not corrosive to metals |
| Evaporation Rate: | not measured |

SECTION 10: Stability and reactivity

| | |
|---|---|
| 10.1 Reactivity: | see section "Possibility of hazardous reactions". |
| 10.2 Chemical Stability: | The product is stable under normal conditions. |
| 10.3 Possibility of hazardous reactions: | No hazardous reactions with proper storage and handling |
| 10.4 Conditions to avoid: | Open flames, sparks or input of much heat |
| 10.5 Incompatible Materials: | Oxidizing agents. |
| 10.6 Hazardous Decomposition Products: | None with proper storage and handling. |

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

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: | LD 50, Rat, > 5,000 mg/kg, OECD 423, The data are derived from the evaluations or test results achieved with similar products (conclusion by |
|-----------------|--|

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| | |
|--|--|
| | analogy). |
| Components: | |
| 2-methoxy-1-methylethyl acetate | LD 50, Rat, Female, Male, 6,190 mg/kg, OECD 401 LD 50, Rat, Male, 6,190 - 10,000 mg/kg, OECD 401 LD 50, Rat, Female, 5,155 mg/kg, OECD 401 |
| Butyl acetate | LD 50, Rat, Female, 10,760 mg/kg, OECD 423 LD 50, Rat, Male, 12,789 mg/kg, OECD 423 |
| isobutanol | LD 50, Rat, Male, > 2,830 mg/kg, OECD 401, Literature LD 50, Rat, Female, 3,350 mg/kg, OECD 401, Literature |
| 2-methoxypropyl acetate | Not toxic after single exposure, No data available. |
| Dermal | |
| Product: | LD 50, ATEmix, > 5,000 mg/kg |
| Components: | |
| 2-methoxy-1-methylethyl acetate | LD 50, Rabbit, Female, Male, > 5,000 mg/kg, OECD 402 |
| Butyl acetate | LD 50, Rabbit, Female, Male, > 14,112 mg/kg, OECD 402 |
| isobutanol | LD 50, Rabbit, Female, 2,460 mg/kg, OECD 402, Literature LD 50, Rabbit, Male, > 2,000 mg/kg, OECD 402, Literature |
| 2-methoxypropyl acetate | Not toxic after single exposure, No data available. |
| Inhalation | |
| Product: | No data available. |
| Components: | |
| 2-methoxy-1-methylethyl acetate | LC 50, Rat, 4 h, > 35.7 mg/l, Vapour Dust and mist, Not toxic after single exposure, No data available. |
| 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. |
| isobutanol | Not toxic after single exposure, No classification, Vapour Not toxic after single exposure, No data available., Dust and mist |
| 2-methoxypropyl acetate | Vapour, Not toxic after single exposure, No data available. Dust and mist, Not toxic after single exposure, No data available. |
| Repeated dose toxicity | |
| Product: | No data available. |
| Components: | |
| 2-methoxy-1-methylethyl acetate | No data available. |
| Butyl acetate | No data available. |
| isobutanol | No data available. |
| 2-methoxypropyl acetate | No data available. |
| Skin Corrosion/Irritation | |
| Product: | No data available. |
| Components: | |
| 2-methoxy-1-methylethyl acetate | Not irritating, OECD 404, Rabbit |
| Butyl acetate | Not irritating, OECD 404, Rabbit |
| isobutanol | Irritating., EU-CLP as per Regulation (EU) No. 1272/2008, Annex VI |
| 2-methoxypropyl acetate | No data available. |
| Serious Eye Damage/Eye Irritation | |
| Product: | No data available. |
| Components: | |
| 2-methoxy-1-methylethyl acetate | Not irritating, OECD 405, Rabbit |
| Butyl acetate | Not irritating, OECD 405, Rabbit |
| isobutanol | Risk of serious damage to eyes., OECD 405, Rabbit, 24 h, Literature |
| 2-methoxypropyl acetate | No data available. |

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Respiratory or Skin Sensitization

| | |
|---------------------------------|---|
| Product: | No data available. |
| Components: | |
| 2-methoxy-1-methylethyl acetate | Maximization Test, OECD 406, Guinea Pig, Not a skin sensitizer. |
| Butyl acetate | Maximization Test, OECD 406, Guinea Pig, Not a skin sensitizer. |
| isobutanol | Sensitization test, QSAR, Not a skin sensitizer. |
| 2-methoxypropyl acetate | No data available. |

Carcinogenicity

| | |
|---------------------------------|--------------------|
| Product: | No data available. |
| Components: | |
| 2-methoxy-1-methylethyl acetate | No data available. |
| Butyl acetate | No data available. |
| isobutanol | No data available. |
| 2-methoxypropyl acetate | No data available. |

Germ Cell Mutagenicity

No data available.

In vitro

Product: Bacterial reverse mutation assay, OECD 471: , negative, The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy).

| | |
|---------------------------------|--------------------|
| Components: | |
| 2-methoxy-1-methylethyl acetate | No data available. |
| Butyl acetate | No data available. |
| isobutanol | No data available. |
| 2-methoxypropyl acetate | No data available. |

In vivo

| | |
|---------------------------------|--------------------|
| Product: | No data available. |
| Components: | |
| 2-methoxy-1-methylethyl acetate | No data available. |
| Butyl acetate | No data available. |
| isobutanol | No data available. |
| 2-methoxypropyl acetate | No data available. |

Reproductive toxicity

| | |
|---------------------------------|---|
| Product: | No data available. |
| Components: | |
| 2-methoxy-1-methylethyl acetate | No data available. |
| Butyl acetate | No data available. |
| isobutanol | No data available. |
| 2-methoxypropyl acetate | Presumed human reproductive toxicant May damage the unborn child. |

Specific Target Organ Toxicity - Single Exposure

| | |
|---------------------------------|--|
| Product: | No data available. |
| Components: | |
| 2-methoxy-1-methylethyl acetate | Inhalation - vapor, Central nervous system., Category 3 with narcotic effects. |
| Butyl acetate | Inhalation - vapor, Central nervous system., Category 3 with narcotic effects., May cause drowsiness or dizziness. |

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| | |
|-------------------------|---|
| isobutanol | Inhalation - vapor, Respiratory system, Category 3 with respiratory tract irritation. Inhalation - vapor, Central nervous system., Category 3 with narcotic effects. |
| 2-methoxypropyl acetate | Inhalation - vapor, Respiratory system, Category 3 with respiratory tract irritation. |

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Components:

| | |
|---------------------------------|--------------------|
| 2-methoxy-1-methylethyl acetate | No data available. |
| Butyl acetate | No data available. |
| isobutanol | No data available. |
| 2-methoxypropyl acetate | No data available. |

Aspiration Hazard

Product: Not classified

Components:

| | |
|---------------------------------|----------------|
| 2-methoxy-1-methylethyl acetate | Not classified |
| Butyl acetate | Not classified |
| isobutanol | Not classified |
| 2-methoxypropyl acetate | Not classified |

11.2 Information on other hazards
Other information

Product: No data available.

| |
|---|
| SECTION 12: Ecological information |
|---|

12.1 Toxicity:
Acute hazards to the aquatic environment:
Fish

Product: No data available.

Components:

| | |
|---------------------------------|---|
| 2-methoxy-1-methylethyl acetate | LC 50, Oncorhynchus mykiss, 96 h, > 100 - 180 mg/l OECD 203 NOEC, Oncorhynchus mykiss, 96 h, 100 mg/l OECD 203 |
| Butyl acetate | LC 50, Pimephales promelas, 96 h, 18 mg/l OECD 203 |
| isobutanol | LC 50, Pimephales promelas, 96 h, 1,430 mg/l, Literature |
| 2-methoxypropyl acetate | No data available. |

Aquatic Invertebrates

Product: No data available.

Components:

| | |
|---------------------------------|---|
| 2-methoxy-1-methylethyl acetate | EC 50, Daphnia magna, 48 h, > 500 mg/l Tested according to Annex V of Directive 67/548/EEC. |
| Butyl acetate | EC 50, Daphnia magna, 48 h, 44 mg/l OECD 202 |
| isobutanol | EC 50, Daphnia pulex, 48 h, 1,100 mg/l, Literature |
| 2-methoxypropyl acetate | No data available. |

Toxicity to Aquatic Plants

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| | |
|---------------------------------|--|
| Product: | No data available. |
| Components: | |
| 2-methoxy-1-methylethyl acetate | EC 50 (Algae (<i>Pseudokirchneriella subcapitata</i>), 96 h): > 1,000 mg/l (OECD 201) |
| Butyl acetate | EC 50 (<i>Desmodesmus subspicatus</i> (green algae), 72 h): 647 mg/l growth rate |
| isobutanol | EC 50 (Algae (<i>Pseudokirchneriella subcapitata</i>), 72 h): 632 mg/l (OECD 201) Literature |
| | EC 50 (Algae (<i>Pseudokirchneriella subcapitata</i>), 72 h): 1,799 mg/l (OECD 201) |
| 2-methoxypropyl acetate | No data available. |

Toxicity to microorganisms

| | |
|---------------------------------|--|
| Product: | No data available. |
| Components: | |
| 2-methoxy-1-methylethyl acetate | EC 10, activated sludge, 0.5 h, > 1,000 mg/l, OECD 209 |
| Butyl acetate | IC 50, <i>Tetrahymena pyriformis</i> , 40 h, 356 mg/l |
| isobutanol | No data available. |
| 2-methoxypropyl acetate | No data available. |

Toxicity to soil dwelling organisms

| | |
|---------------------------------|--------------------|
| Product: | No data available. |
| Components: | |
| 2-methoxy-1-methylethyl acetate | No data available. |
| Butyl acetate | No data available. |
| isobutanol | No data available. |
| 2-methoxypropyl acetate | No data available. |

Toxicity to terrestrial organisms

| | |
|---------------------------------|--------------------|
| Product: | No data available. |
| Components: | |
| 2-methoxy-1-methylethyl acetate | No data available. |
| Butyl acetate | No data available. |
| isobutanol | No data available. |
| 2-methoxypropyl acetate | No data available. |

Chronic hazards to the aquatic environment:
Fish

| | |
|---------------------------------|---|
| Product: | No data available. |
| Components: | |
| 2-methoxy-1-methylethyl acetate | NOEC, <i>Oryzias latipes</i> , 14 d, 47.5 mg/l, OECD 204 LC 50, <i>Oryzias latipes</i> , 14 d, 63.5 mg/l, OECD 204 |
| Butyl acetate | No data available. |
| isobutanol | No data available. |
| 2-methoxypropyl acetate | No data available. |

Aquatic Invertebrates

| | |
|---------------------------------|---|
| Product: | No data available. |
| Components: | |
| 2-methoxy-1-methylethyl acetate | NOEC, <i>Daphnia magna</i> , 21 d, 100 mg/l, OECD 211 EC 50, <i>Daphnia magna</i> , 21 d, > 100 mg/l, OECD 211 |
| Butyl acetate | No data available. |
| isobutanol | NOEC, <i>Daphnia magna</i> , 21 d, 20 mg/l |
| 2-methoxypropyl acetate | No data available. |

Toxicity to Aquatic Plants

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| | |
|---------------------------------|---|
| Product: | No data available. |
| Components: | |
| 2-methoxy-1-methylethyl acetate | NOEC (Algae (Pseudokirchneriella subcapitata), 96 h): 1,000 mg/l (OECD 201) |
| Butyl acetate | NOEC (Desmodesmus subspicatus (green algae), 72 h): 200 mg/l growth rate |
| isobutanol | NOEC (Algae (Pseudokirchneriella subcapitata), 72 h): 53 mg/l (OECD 201) Literature |
| 2-methoxypropyl acetate | No data available. |

Toxicity to microorganisms

| | |
|---------------------------------|--|
| Product: | No data available. |
| Components: | |
| 2-methoxy-1-methylethyl acetate | EC 10, activated sludge, 0.5 h, > 1,000 mg/l, OECD 209 |
| Butyl acetate | IC 50, Tetrahymena pyriformis, 40 h, 356 mg/l |
| isobutanol | No data available. |
| 2-methoxypropyl acetate | No data available. |

Toxicity to soil dwelling organisms

| | |
|---------------------------------|--------------------|
| Product: | No data available. |
| Components: | |
| 2-methoxy-1-methylethyl acetate | No data available. |
| Butyl acetate | No data available. |
| isobutanol | No data available. |
| 2-methoxypropyl acetate | No data available. |

Toxicity to terrestrial organisms

| | |
|---------------------------------|--------------------|
| Product: | No data available. |
| Components: | |
| 2-methoxy-1-methylethyl acetate | No data available. |
| Butyl acetate | No data available. |
| isobutanol | No data available. |
| 2-methoxypropyl acetate | No data available. |

12.2 Persistence and Degradability
Biodegradation

| | |
|---------------------------------|--|
| Product: | No data available. |
| Components: | |
| 2-methoxy-1-methylethyl acetate | 83 %, 28 d, OECD 301 F, The product is easily biodegradable., aerobic |
| Butyl acetate | 83 %, 28 d, OECD 301 D, The product is easily biodegradable., aerobic |
| isobutanol | 70 - 80 %, 28 d, OECD 301 D, The product is easily biodegradable., aerobic |
| 2-methoxypropyl acetate | No data available. |

12.3 Bioaccumulative potential
Bioconcentration Factor (BCF)

| | |
|---------------------------------|--------------------|
| Product: | No data available. |
| Components: | |
| 2-methoxy-1-methylethyl acetate | No data available. |
| Butyl acetate | No data available. |
| isobutanol | No data available. |
| 2-methoxypropyl acetate | No data available. |

Product name: TEGO® Dispers 710

Partition Coefficient n-octanol / water (log Kow)

| | |
|---------------------------------|-----------------------------------|
| Product: | not measured |
| Components: | |
| 2-methoxy-1-methylethyl acetate | No data available. |
| Butyl acetate | 2.3, OECD 117 |
| isobutanol | 1, 25 °C, HPLC-Method, Literature |
| 2-methoxypropyl acetate | No data available. |

12.4 Mobility in soil:

| | |
|---------------------------------|--------------------|
| Product | No data available. |
| Components: | |
| 2-methoxy-1-methylethyl acetate | No data available. |
| Butyl acetate | No data available. |
| isobutanol | No data available. |
| 2-methoxypropyl acetate | No data available. |

12.5 Results of PBT and vPvB assessment:

| | |
|---------------------------------|---|
| Product | No data available. |
| Components: | |
| 2-methoxy-1-methylethyl acetate | Non-classified vPvB substance, Non-classified PBT substance |
| Butyl acetate | No data available. |
| isobutanol | No data available. |
| 2-methoxypropyl acetate | Non-classified vPvB substance, Non-classified PBT substance |

12.6 Other adverse effects:

Other hazards

Product: Do not allow to enter soil, waterways or waste water canal.

| |
|--|
| SECTION 13: Disposal considerations |
|--|

13.1 Waste treatment methods

| | |
|--------------------------------|---|
| General information: | No data available. |
| 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. |

| |
|--|
| SECTION 14: Transport information |
|--|

14.1 UN/ID No.

| | |
|-------------|-----------|
| ADR | : UN 1993 |
| RID | : UN 1993 |
| IMDG | : UN 1993 |

Product name: TEGO® Dispers 710

IATA : UN 1993**14.2 UN proper shipping name****ADR** : FLAMMABLE LIQUID, N.O.S.
(Methoxypropylacetate, Butyl acetates)**RID** : FLAMMABLE LIQUID, N.O.S.
(Methoxypropylacetate, Butyl acetates)**IMDG** : FLAMMABLE LIQUID, N.O.S.
(Methoxypropylacetate, Butyl acetates)**IATA** : Flammable liquid, n.o.s.
(Methoxypropylacetate, Butyl acetates)**14.3 Transport hazard class(es)****ADR** : 3**RID** : 3**IMDG** : 3**IATA** : 3**14.4 Packing group****ADR**Packing group : III
Classification Code : F1
Hazard Identification Number : 30
Labels : 3
Tunnel restriction code : (D/E)**RID**Packing group : III
Classification Code : F1
Hazard Identification Number : 30
Labels : 3**IMDG**Packing group : III
Labels : 3
EmS Code : F-E, S-E
Remarks : Stowage category A**IATA (Cargo aircraft only)**Packing instruction (cargo aircraft) : 366
Packing instruction (LQ) : Y344
Packing group : III
Labels : 3**IATA (Passenger and cargo aircraft)**Packing instruction (passenger aircraft) : 355
Packing instruction (LQ) : Y344
Packing group : III
Labels : 3**14.5 Environmental hazards****ADR**

Environmentally hazardous : no

Product name: TEGO® Dispers 710
RID

Environmentally hazardous : no

IMDG

Marine pollutant : no

14.6 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.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information
15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:
EU Regulations
EU. Directive 2012/18/EU (SEVESO III) on major accident hazards involving dangerous substances, Annex I:

| Classification | Lower-tier Requirements | Upper-tier Requirements |
|------------------------|-------------------------|-------------------------|
| P5c. Flammable liquids | 5,000 t | 50,000 t |

15.2 Chemical safety assessment: No chemical safety assessment was carried out for this product.

International regulations
Montreal protocol

Not applicable

Stockholm convention

Not applicable

Rotterdam convention

Not applicable

Kyoto protocol

Not applicable

SECTION 16: Other information
Abbreviations and acronyms:

| | |
|------------------|---|
| EH40 WEL: | UK. EH40 Workplace Exposure Limits (WELs), as amended |
| EH40 WEL / STEL: | Short Term Exposure Limit (STEL): |
| EH40 WEL / TWA: | Time Weighted Average (TWA): |

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; EIGA -

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European Industrial Gases Association; 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; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; 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; KECl - 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; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECl - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Key literature references and sources for data: No data available.

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]

| Classification according to Regulation (EC) No 1272/2008 as amended. | Classification procedure |
|--|--------------------------|
| Flammable liquids, Category 3 | On basis of test data |
| Serious eye irritation, Category 2 | On basis of test data |
| Specific Target Organ Toxicity - Single Exposure, Category 3 | Calculation method |

Wording of the statements in section 2 and 3

| | |
|------|------------------------------------|
| H226 | Flammable liquid and vapor. |
| H315 | Causes skin irritation. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H335 | May cause respiratory irritation. |
| H336 | May cause drowsiness or dizziness. |
| | Restricted to professional users. |

Training information: Comply with national laws regulating employee instruction.

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

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Disclaimer:

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