

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: INKU-US-1000-PR

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

Identified uses: Pre-treatment fluid

Uses advised against: For industrial use only

1.3 Details of the supplier of the safety data sheet

Roland DG EMEA NV
Bell-Telephonelaan 2G
B-2440 Geel
Belgien
Telefon-Nr.+32 14575911
EMAIL: deu-demand-planning@rolanddg.com

National Supplier

ROLAND DG (UK) Ltd.
Griffin House, Windmill
Road Clevedon, North Somerset
BS21 6UJ
Phone: +44 1275 335540
EMAIL: deu-demand-planning@rolanddg.com

1.4 Emergency telephone number:

+35318092566 (National Poisons Information Centre Ireland), 999 and 112 is the national emergency response service in the UK

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

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Health Hazards

| | | |
|-----------------------|------------|---|
| Serious eye damage | Category 1 | H318: Causes serious eye damage. |
| Skin sensitizer | Category 1 | H317: May cause an allergic skin reaction. |
| Toxic to reproduction | Category 2 | H361fd: Suspected of damaging fertility. Suspected of damaging the unborn child. |

Environmental Hazards

| | | |
|--|------------|--|
| Chronic hazards to the aquatic environment | Category 2 | H411: Toxic to aquatic life with long lasting effects. |
|--|------------|--|

2.2 Label Elements

Contains:

- 2-Phenoxyethyl acrylate
- 2-Hydroxy-3-phenoxypropyl acrylate
- Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide
- 2-phenoxyethyl prop-2-enoate
- 2-phenoxyethanol

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Signal Word:

Danger

Hazard Statement(s):

H318: Causes serious eye damage.

H317: May cause an allergic skin reaction.

H361fd: Suspected of damaging fertility. Suspected of damaging the unborn child.

H411: Toxic to aquatic life with long lasting effects.

Precautionary Statements
Prevention:

P201: Obtain special instructions before use.

P261: Avoid breathing dust/fume/gas/mist/vapors/spray.

P273: Avoid release to the environment.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response:

P333+P313: If skin irritation or rash occurs: Get medical advice/attention.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310: Immediately call a POISON CENTER or doctor/ physician.

2.3 Other hazards
Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

| Chemical name | Concentration | CAS-No. | EC No. | REACH Registration No. | M-Factor: | Notes |
|------------------------------------|---------------|------------|-----------|------------------------|--------------------|-------|
| 2-Phenoxyethyl acrylate | 50 - <100% | 48145-04-6 | 256-360-6 | 01-2119980532-35-XXXX; | No data available. | |
| 2-Hydroxy-3-phenoxypropyl acrylate | 10 - <25% | 16969-10-1 | 241-045-8 | 01-2120735823-52-XXXX; | No data available. | |
| Diphenyl(2,4,6-trimethylbenzo | 5 - <10% | 75980-60-8 | 278-355-8 | 01-2119972295-29-XXXX; | No data available. | |

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| | | | | | | |
|---|-----------|------------|-----------|------------------------|-----------------------------|---|
| yl)phosphine oxide | | | | | | |
| 2-phenoxyethyl prop-2-enoate | 5 - <10% | 56641-05-5 | 500-133-9 | No data available. | No data available. | |
| 2-phenoxyethanol | 3 - <5% | 122-99-6 | 204-589-7 | 01-2119488943-21-XXXX; | No data available. | |
| Propylidynetrimethanol, ethoxylated, esters with acrylic acid | 0.1 - <1% | 28961-43-5 | 500-066-5 | 01-2119489900-30-XXXX; | No data available. | |
| Acrylic acid | 0.1 - <1% | 79-10-7 | 201-177-9 | 01-2119452449-31-XXXX; | Aquatic Toxicity (Acute): 1 | # |
| 2-Propenoic acid, 2-(phosphonooxy)ethyl ester | 0.1 - <1% | 32120-16-4 | 250-927-1 | No data available. | No data available. | |
| Bis[2-(acryloyloxy)ethyl] hydrogen phosphate | 0.1 - <1% | 40074-34-8 | 254-783-0 | No data available. | No data available. | |
| Triphenyl phosphite | 0 - <0.1% | 101-02-0 | 202-908-4 | 01-2119511213-58-XXXX; | 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-Phenoxyethyl acrylate | Classification: Skin Sens.: 1A: H317; Repr.: 2: H361d; Aquatic Chronic: 2: H411; | No data available. |
| 2-Hydroxy-3-phenoxypropyl acrylate | Classification: Skin Sens.: 1B: H317; Eye Dam.: 1: H318; Aquatic Chronic: 2: H411; | No data available. |
| Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide | Classification: Repr.: 2: H361f; Repr.: 2: H361f; Skin Sens.: 1B: H317; Aquatic Chronic: 2: H411; | No data available. |
| 2-phenoxyethyl prop-2-enoate | Classification: Skin Sens.: 1: H317; Aquatic Chronic: 2: H411; | No data available. |
| 2-phenoxyethanol | Classification: Acute Tox.: 4: H302; Eye Irrit.: 2: H319; Acute Tox.: 4: H302; STOT SE: 3: H335; Eye Dam.: 1: H318; | No data available. |
| Propylidynetrimethanol, ethoxylated, esters with acrylic acid | Classification: Eye Irrit.: 2: H319; Skin Sens.: 1B: H317; | No data available. |

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| | | |
|--|--|--------------------|
| Acrylic acid | Classification: Flam. Liq.: 3: H226; Flam. Liq.: 3: H226; Acute Tox.: 4: H332; Acute Tox.: 4: H312; Acute Tox.: 4: H302; Skin Corr.: 1A: H314; Acute Tox.: 4: H302; Acute Tox.: 4: H332; Acute Tox.: 4: H312; Skin Corr.: 1A: H314; Eye Dam.: 1: H318; STOT SE: 3: H335; Aquatic Acute: 1: H400; Aquatic Acute: 1: H400; Aquatic Chronic: 2: H411; | Note D Note D |
| 2-Propenoic acid, 2-(phosphonoxy)ethyl ester | Classification: Skin Irrit.: 2: H315; Eye Dam.: 1: H318; Skin Sens.: 1B: H317; | No data available. |
| Bis[2-(acryloyloxy)ethyl] hydrogen phosphate | Classification: Skin Irrit.: 2: H315; Eye Dam.: 1: H318; Skin Sens.: 1B: H317; | No data available. |
| Triphenyl phosphite | Classification: Eye Irrit.: 2: H319; Skin Irrit.: 2: H315; Skin Sens.: 1A: H317; Acute Tox.: 4: H302; Skin Irrit.: 2: H315; Eye Irrit.: 2: H319; Aquatic Acute: 1: H400; Aquatic Chronic: 1: H410; Aquatic Chronic: 1: H410; Aquatic Acute: 1: H400; | No data available. |

CLP: Regulation No. 1272/2008.

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

SECTION 4: First aid measures

4.1 Description of necessary first-aid measures

| | |
|--|--|
| General information: | Get medical attention if symptoms occur. |
| Inhalation: | Move to fresh air. |
| Skin Contact: | Destroy or thoroughly clean contaminated shoes. Immediately remove contaminated clothing and shoes and wash skin with soap and plenty of water. If skin irritation or an allergic skin reaction develops, get medical attention. |
| Eye contact: | Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Call a physician or poison control center immediately. |
| Ingestion: | Rinse mouth thoroughly. |
| Personal Protection for First-aid Responders: | CAUTION! First aid personnel must be aware of own risk during rescue! See Section 8 of the SDS for Personal Protective Equipment. |

4.2 Most important symptoms and effects, both acute and delayed

| | |
|------------------|---|
| Symptoms: | See section 11 of the SDS for additional information on health hazards. |
| Hazards: | See section 11 of the SDS for additional information on health hazards. |

4.3 Indication of immediate medical attention and special treatment needed

| | |
|-------------------|------------------------|
| Treatment: | Treat symptomatically. |
|-------------------|------------------------|

SECTION 5: Firefighting measures

| | |
|------------------------------|---|
| General Fire Hazards: | No unusual fire or explosion hazards noted. |
|------------------------------|---|

5.1 Extinguishing media

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Suitable extinguishing media: Extinguish with foam, carbon dioxide, dry powder or water fog.

Unsuitable extinguishing media: Do not use water jet as an extinguisher, as this will spread the fire.

5.2 Special hazards arising from the substance or mixture: During fire, gases hazardous to health may be formed.

5.3 Advice for firefighters

Special fire-fighting procedures: No data available.

Special protective equipment for fire-fighters: Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures: See Section 8 of the SDS for Personal Protective Equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away.

6.1.1 For non-emergency personnel: Use personal protective equipment.

6.1.2 For emergency responders: Warn everybody of potential hazards and evacuate if necessary. Use personal protective equipment.

6.2 Environmental Precautions: Avoid release to the environment. Prevent entry into waterways, sewer, basements or confined areas. Contact local authorities in case of spillage to drain/aquatic environment. Do not contaminate water sources or sewer.

6.3 Methods and material for containment and cleaning up: Prevent further leakage or spillage if safe to do so. Stop the flow of material, if this is without risk. Small Spillages: Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Containers with collected spillage must be properly labelled with correct contents and hazard symbol. Clean surface thoroughly to remove residual contamination. Large Spillages: Dike far ahead of larger spill for later recovery and disposal.

6.4 Reference to other sections: See Section 8 of the SDS for Personal Protective Equipment. For waste disposal, see section 13 of the SDS.

SECTION 7: Handling and storage:

7.1 Precautions for safe handling

Technical measures (e.g. Local and general ventilation): Provide easy access to water supply and eye wash facilities. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process

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enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Safe handling advice: Do not get in eyes. Wash hands thoroughly after handling. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Use personal protective equipment as required. Avoid contact with eyes, skin, and clothing.

Contact avoidance measures: Contact with incompatible materials.

7.2 Conditions for safe storage, including any incompatibilities

Safe storage conditions: Store locked up. Store in tightly closed original container in a dry, cool and well-ventilated place. Store away from incompatible materials.

Safe packaging materials: Suitable materials: Keep in original container.

7.3 Specific end use(s): For industrial use only

SECTION 8: Exposure controls/personal protection

8.1 Control Parameters

Occupational Exposure Limits

| Chemical name | Type | Exposure Limit Values | Source |
|---------------|------------------|--------------------------------|---|
| Acrylic acid | STEL 1 minute | 20 ppm 59 mg/m ³ | UK. EH40 Workplace Exposure Limits (WELs), as amended (01 2020) |
| Acrylic acid | TWA | 10 ppm 29 mg/m ³ | UK. EH40 Workplace Exposure Limits (WELs), as amended (08 2018) |

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

| Critical component | Type | Route of Exposure | Health Warnings | Remarks |
|------------------------------------|--------------------|-------------------|---|------------------------|
| 2-Phenoxyethyl acrylate | Workers | Inhalation | Local, long-term; 77 mg/m ³ | Repeated dose toxicity |
| | Workers | Inhalation | Systemic, long-term; 12 mg/m ³ | Repeated dose toxicity |
| | Workers | Eyes | Local effect; | No hazard identified |
| | General population | Eyes | Local effect; | No hazard identified |
| 2-Hydroxy-3-phenoxypropyl acrylate | Workers | Dermal | Systemic, long-term; 3.5 mg/kg | Repeated dose toxicity |
| | Workers | Inhalation | Systemic, long-term; 1.65 mg/m ³ | Repeated dose toxicity |
| | Workers | Dermal | Systemic, long-term; 4.67 mg/kg | Repeated dose toxicity |
| | General population | Inhalation | Systemic, long-term; 0.29 mg/m ³ | Repeated dose toxicity |
| | General population | Oral | Systemic, long-term; 0.17 mg/kg | Repeated dose toxicity |

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| | | | | |
|---|--------------------|------------|-----------------------------------|--------------------------------------|
| | Workers | Eyes | Local effect; | Medium hazard (no threshold derived) |
| | General population | Eyes | Local effect; | Medium hazard (no threshold derived) |
| | General population | Dermal | Systemic, long-term; 1.67 mg/kg | Repeated dose toxicity |
| Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide | Workers | Dermal | Systemic, long-term; 0.233 mg/kg | Repeated dose toxicity |
| | Workers | Inhalation | Systemic, long-term; 0.822 mg/m3 | Repeated dose toxicity |
| | General population | Eyes | Local effect; | No hazard identified |
| | General population | Inhalation | Systemic, long-term; 0.145 mg/m3 | Repeated dose toxicity |
| | Workers | Eyes | Local effect; | No hazard identified |
| | General population | Dermal | Systemic, long-term; 0.0833 mg/kg | Repeated dose toxicity |
| | General population | Oral | Systemic, long-term; 0.0833 mg/kg | Repeated dose toxicity |
| 2-phenoxyethyl prop-2-enoate | General population | Eyes | Local effect; | No hazard identified |
| | Workers | Eyes | Local effect; | No hazard identified |
| | Workers | Inhalation | Local, long-term; 97 mg/m3 | Repeated dose toxicity |
| | Workers | Inhalation | Systemic, long-term; 12 mg/m3 | Repeated dose toxicity |
| | Workers | Dermal | Systemic, long-term; 3.5 mg/kg | Repeated dose toxicity |
| 2-phenoxyethanol | Workers | Inhalation | Local, long-term; 5.7 mg/m3 | |
| | General population | Dermal | Systemic, long-term; 10.42 mg/kg | Repeated dose toxicity |
| | General population | Oral | Systemic, short-term; 9.23 mg/kg | Repeated dose toxicity |
| | General population | Oral | Systemic, long-term; 9.23 mg/kg | Repeated dose toxicity |
| | Workers | Eyes | Local effect; | Low hazard (no threshold derived) |
| | General population | Eyes | Local effect; | Low hazard (no threshold derived) |
| | Workers | Inhalation | Systemic, long-term; 5.7 mg/m3 | |
| | Workers | Dermal | Systemic, long-term; 20.83 mg/kg | Repeated dose toxicity |
| | General population | Inhalation | Systemic, long-term; 2.41 mg/m3 | Repeated dose toxicity |
| | General population | Inhalation | Local, long-term; 2.41 mg/m3 | Repeated dose toxicity |
| Propylidynetrimethanol, ethoxylated, esters with acrylic acid | Workers | Dermal | Systemic, long-term; 0.8 mg/kg | Repeated dose toxicity |
| | General population | Oral | Systemic, long-term; 1.4 mg/kg | Repeated dose toxicity |
| | Workers | Inhalation | Systemic, long-term; 16.2 mg/m3 | Repeated dose toxicity |
| | General population | Inhalation | Systemic, long-term; 4.9 mg/m3 | Repeated dose toxicity |
| | General population | Dermal | Systemic, long-term; 0.5 mg/kg | Repeated dose toxicity |
| Acrylic acid | Workers | Dermal | Local, short-term; 1 mg/cm2 | Skin irritation |
| | General population | Dermal | Local, long-term; 1 mg/cm2 | Skin irritation |
| | General population | Dermal | Local, short-term; 1 mg/cm2 | Skin irritation |
| | Workers | Inhalation | Systemic, long-term; 30 mg/m3 | irritation respiratory tract |
| | General population | Inhalation | Local, long-term; 3.6 mg/m3 | irritation respiratory tract |

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| | | | | |
|---------------------|--------------------|------------|---|--------------------------------------|
| | Workers | Eyes | Local effect; | High hazard (no threshold derived) |
| | Workers | Inhalation | Local, long-term; 30 mg/m ³ | irritation respiratory tract |
| | Workers | Dermal | Local, long-term; 1 mg/cm ² | Skin irritation |
| | General population | Inhalation | Systemic, short-term; 3.6 mg/m ³ | |
| | Workers | Inhalation | Systemic, short-term; 30 mg/m ³ | irritation respiratory tract |
| | General population | Inhalation | Local, short-term; 3.6 mg/m ³ | irritation respiratory tract |
| | General population | Eyes | Local effect; | High hazard (no threshold derived) |
| | General population | Inhalation | Systemic, long-term; 3.6 mg/m ³ | irritation respiratory tract |
| | Workers | Inhalation | Local, short-term; 30 mg/m ³ | irritation respiratory tract |
| Triphenyl phosphite | Workers | Inhalation | Systemic, long-term; 0.53 mg/m ³ | Repeated dose toxicity |
| | Workers | Dermal | Local, short-term; 11.7 µg/cm ² | Skin Sensitisation |
| | Workers | Dermal | Local, long-term; 11.7 µg/cm ² | Skin Sensitisation |
| | Workers | Dermal | Systemic, long-term; 0.15 mg/kg | Repeated dose toxicity |
| | General population | Eyes | Local effect; | No hazard identified |
| | General population | Inhalation | Systemic, long-term; 0.53 mg/m ³ | Repeated dose toxicity |
| | General population | Dermal | Local, short-term; 11.7 µg/cm ² | Skin Sensitisation |
| | General population | Dermal | Local, long-term; 11.7 µg/cm ² | Skin Sensitisation |
| | Workers | Inhalation | Systemic, long-term; 1.06 mg/m ³ | Repeated dose toxicity |
| | Workers | Eyes | Local effect; | Medium hazard (no threshold derived) |
| | Workers | Dermal | Systemic, long-term; 0.3 mg/kg | Repeated dose toxicity |
| | General population | Oral | Systemic, long-term; 0.075 mg/kg | Repeated dose toxicity |
| | General population | Dermal | Systemic, long-term; 0.15 mg/kg | Repeated dose toxicity |

PNEC-Values

| Critical component | Environmental compartment | PNEC-Values | Remarks |
|---|---------------------------|--------------|---------|
| 2-Phenoxyethyl acrylate | Sewage treatment plant | 1.77 mg/l | |
| | Aquatic (marine water) | 0.2 µg/l | |
| | freshwater sediment | 0.02 mg/kg | |
| | Marine sediments | 0.002 mg/kg | |
| | Aquatic (freshwater) | 2 µg/l | |
| 2-Hydroxy-3-phenoxypropyl acrylate | soil | 0.004 mg/kg | |
| | Sewage treatment plant | 10 mg/l | |
| | Marine sediments | 0.003 mg/kg | |
| | freshwater sediment | 0.035 mg/kg | |
| | Aquatic (freshwater) | 0.004 mg/l | |
| Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide | Aquatic (marine water) | 0 mg/l | |
| | Marine sediments | 0.0115 mg/kg | |
| | Fresh water | 0.00353 mg/l | |
| | Aquatic (marine water) | 0.14 µg/l | |
| | Marine water | 0.00353 mg/l | |
| | Aquatic (freshwater) | 1.4 µg/l | |
| | Intermittent release | 0.0353 mg/l | |
| soil | 0.0222 mg/kg | | |
| | Sediment-fresh water | 0.29 mg/kg | |

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|--|------------------------|--------------|------|
| | freshwater sediment | 0.115 mg/kg | |
| | Soil | 0.0557 mg/kg | |
| 2-phenoxyethyl prop-2-enoate | Aquatic (freshwater) | 2 µg/l | |
| | soil | 0.009 mg/kg | |
| | Aquatic (marine water) | 0.2 µg/l | |
| | freshwater sediment | 0.053 mg/kg | |
| | Sewage treatment plant | 1.77 mg/l | |
| | Marine sediments | 0.005 mg/kg | |
| 2-phenoxyethanol | soil | 1.31 mg/kg | |
| | Marine sediments | 0.724 mg/kg | |
| | freshwater sediment | 7.237 mg/kg | |
| | Aquatic (freshwater) | 0.943 mg/l | |
| | Sewage treatment plant | 36 mg/l | |
| | Aquatic (marine water) | 0.094 mg/l | |
| Propylidyntrimethanol, ethoxylated, esters with acrylic acid | Aquatic (freshwater) | 0.002 mg/l | |
| | Aquatic (marine water) | 0 mg/l | |
| | Predator | 5.6 mg/kg | Oral |
| | soil | 0.006 mg/kg | |
| | Sewage treatment plant | 10 mg/l | |
| | Marine sediments | 0.001 mg/kg | |
| | freshwater sediment | 0.008 mg/kg | |
| Acrylic acid | soil | 1 mg/kg | |
| | Aquatic (freshwater) | 0.003 mg/l | |
| | Aquatic (marine water) | 0 mg/l | |
| | Marine sediments | 0.002 mg/kg | |
| | freshwater sediment | 0.024 mg/kg | |
| | Predator | 0.03 g/kg | Oral |
| | Sewage treatment plant | 0.9 mg/l | |

8.2 Exposure controls

Appropriate Engineering Controls:

Provide easy access to water supply and eye wash facilities. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Monitoring methods:

BS EN 14042:2003: Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.

Individual protection measures, such as personal protective equipment

General information:

Follow training instructions when handling this material. Use personal protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

Eye/face protection:

Safety goggles. EN 166.

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|----------------------------------|---|
| Hand Protection: | Protective gloves should be used if there is a risk of direct contact or splash.(EN374), Chemical resistant gloves required for prolonged or repeated contact., Butyl rubber (EN374), Glove thickness: > 0.35 mm, Break-through time: > 240 min, Risk of splashes:, Nitrile rubber., Nitrile gloves are recommended, but be aware that the liquid may penetrate the gloves. Frequent change is advisable., The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material. |
| Skin and Body Protection: | Safety clothes : long sleeved clothing EN13688 |
| Respiratory Protection: | In case of inadequate ventilation use suitable respirator (EN14387). Seek advice from local supervisor. |
| Hygiene measures: | Do not get in eyes. Observe good industrial hygiene practices. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Contaminated work clothing should not be allowed out of the workplace. Avoid contact with skin. |
| Environmental Controls: | Do not empty into drains. |

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

| | |
|--------------------------|---|
| Physical state: | liquid |
| Form: | liquid |
| Color: | Colorless |
| Odor: | Characteristic |
| Odor Threshold: | No data available. |
| pH: | substance/mixture is non-soluble (in water) |
| Freezing point: | No data available. |
| Boiling Point: | No data available. |
| Flash Point: | No data available. |
| Evaporation Rate: | No data available. |
| Flammability: | No data available. |

Upper/lower limit on flammability or explosive limits

| | |
|----------------------------------|--------------------|
| Explosive limit - upper: | No data available. |
| Explosive limit - lower: | No data available. |
| Vapor pressure: | No data available. |
| Relative vapor density: | No data available. |
| Density: | No data available. |
| Relative density: | 1.1240 |
| Solubility(ies) | |
| Solubility in Water: | No data available. |
| Solubility (other): | No data available. |
| Partition coefficient (n- | No data available. |

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octanol/water):

Self Ignition Temperature: No data available.

Decomposition Temperature: No data available.

Viscosity

Dynamic viscosity: 9 - 11 mPa.s (113 °F/45 °C)

Kinematic viscosity: 8.0 - 9.8 mm²/s (113 °F/45 °C)

Explosive properties: No data available.

Oxidizing properties: No data available.

9.2 Other information

VOC Content: EC Directive 1999/13: 34.76 g/l ~3.48 % (calculated)

SECTION 10: Stability and reactivity

- 10.1 Reactivity:** Material is stable under normal conditions.
- 10.2 Chemical Stability:** No data available.
- 10.3 Possibility of hazardous reactions:** Not known.
- 10.4 Conditions to avoid:** Avoid heat or contamination.
- 10.5 Incompatible Materials:** None known.
- 10.6 Hazardous Decomposition Products:** By heating and fire, harmful vapors/gases may be formed.

SECTION 11: Toxicological information

Information on likely routes of exposure

Inhalation: Inhalation is the primary route of exposure. In high concentrations, vapors, fumes or mists may irritate nose, throat and mucus membranes.

Skin Contact: May cause an allergic skin reaction.

Eye contact: Causes serious eye damage.

Ingestion: May be ingested by accident. Ingestion may cause irritation and malaise.

11.1 Information on toxicological effects

Acute toxicity

Oral

Product: ATEmix: 57,125.12 mg/kg

Components:
2-Phenoxyethyl acrylate LD 50 (Rat): 5,000 mg/kg Experimental result, Key study

2-Hydroxy-3-

phenoxypropyl acrylate

Diphenyl(2,4,6-

trimethylbenzoyl)phosphi

No data available.

LD 50 (Rat): > 5,000 mg/kg Experimental result, Key study

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| | |
|---|--|
| ne oxide | |
| 2-phenoxyethyl prop-2-enoate | No data available. |
| 2-phenoxyethanol | LD 50 (Rat): 1,840 mg/kg Experimental result, Key study |
| Propylidynetrimethanol, ethoxylated, esters with acrylic acid | LD 50 (Rat): > 2,000 mg/kg Experimental result, Key study |
| Acrylic acid | LD 50 (Rat): 1,500 mg/kg Experimental result, Weight of Evidence study |
| 2-Propenoic acid, 2-(phosphonoxy)ethyl ester | No data available. |
| Bis[2-(acryloyloxy)ethyl]hydrogen phosphate | No data available. |
| Triphenyl phosphite | LD 50 (Rat): 1.59 g/kg Experimental result, Key study |

Dermal

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

Components:

| | |
|---|---|
| 2-Phenoxyethyl acrylate | No data available. |
| 2-Hydroxy-3-phenoxypropyl acrylate | No data available. |
| Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide | No data available. |
| 2-phenoxyethyl prop-2-enoate | No data available. |
| 2-phenoxyethanol | LD 50: > 2,214 mg/kg |
| Propylidynetrimethanol, ethoxylated, esters with acrylic acid | LD 50 (Rabbit): > 13,200 mg/kg Experimental result, Key study |
| Acrylic acid | No data available. |
| 2-Propenoic acid, 2-(phosphonoxy)ethyl ester | No data available. |
| Bis[2-(acryloyloxy)ethyl]hydrogen phosphate | No data available. |
| Triphenyl phosphite | LD 50 (Rabbit): > 2 - < 5 g/kg Experimental result, Key study |

Inhalation

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

Components:

| | |
|---|--------------------|
| 2-Phenoxyethyl acrylate | No data available. |
| 2-Hydroxy-3-phenoxypropyl acrylate | No data available. |
| Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide | No data available. |
| 2-phenoxyethyl prop-2- | No data available. |

SAFETY DATA SHEET

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

| | |
|---|---|
| enoate | |
| 2-phenoxyethanol | LC 50 (Rat, 6 h): > 1,000 mg/m3 Experimental result, Key study, Aerosol |
| Propylidynetrimethanol, ethoxylated, esters with acrylic acid | No data available. |
| Acrylic acid | No data available. |
| 2-Propenoic acid, 2-(phosphonooxy)ethyl ester | No data available. |
| Bis[2-(acryloyloxy)ethyl] hydrogen phosphate | No data available. |
| Triphenyl phosphite | LC 50 (Rat, 1 h): > 6.7 mg/l Aerosol, Experimental result, Key study |

Repeated dose toxicity

Product:

No data available.

Components:

| | |
|---|--|
| 2-Phenoxyethyl acrylate | NOAEL (Rat(Female, Male), Oral, 43 - 53 d): 300 mg/kg |
| 2-Hydroxy-3-phenoxypropyl acrylate | No data available. |
| Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide | NOAEL (Rat(Female, Male), Oral, 64 - 91 d): 100 mg/kg |
| 2-phenoxyethyl prop-2-enoate | No data available. |
| 2-phenoxyethanol | No data available. |
| Propylidynetrimethanol, ethoxylated, esters with acrylic acid | NOAEL (Rat(Female, Male), Oral, 28 - 52 d): 250 mg/kg |
| Acrylic acid | LOAEL (Rat(Female, Male), Oral, 90 d): 150 mg/kg |
| 2-Propenoic acid, 2-(phosphonooxy)ethyl ester | No data available. |
| Bis[2-(acryloyloxy)ethyl] hydrogen phosphate | No data available. |
| Triphenyl phosphite | LOAEL (Rat, Oral, 16 Weeks): 40 mg/kg NOAEL (Rat(Female, Male), Oral, 16 Weeks): 15 mg/kg |

Skin Corrosion/Irritation:

Product:

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

Components:

| | |
|---|---|
| 2-Phenoxyethyl acrylate | Not irritant Experimental result, Supporting study |
| 2-Hydroxy-3-phenoxypropyl acrylate | No data available. |
| Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide | in vivo Not irritant Experimental result, Key study |
| 2-phenoxyethyl prop-2-enoate | No data available. |
| 2-phenoxyethanol | in vivo Not irritant Experimental result, Key study |
| Propylidynetrimethanol, ethoxylated, esters with acrylic acid | in vivo Not irritant Experimental result, Key study |

SAFETY DATA SHEET

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

| | |
|--|--|
| Acrylic acid | in vivo Highly corrosive Experimental result, Key study |
| 2-Propenoic acid, 2-(phosphonoxy)ethyl ester | No data available. |
| Bis[2-(acryloyloxy)ethyl] hydrogen phosphate | No data available. |
| Triphenyl phosphite | in vivo Slightly irritating Experimental result, Key study |

Serious Eye Damage/Eye

Irritation:

Product: Causes serious eye damage.

Components:

| | |
|---|--|
| 2-Phenoxyethyl acrylate | No data available. |
| 2-Hydroxy-3-phenoxypropyl acrylate | No data available. |
| Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide | No data available. |
| 2-phenoxyethyl prop-2-enoate | No data available. |
| 2-phenoxyethanol | No data available. |
| Propylidynetrimethanol, ethoxylated, esters with acrylic acid | in vivo Irritating in vivo Category 2A EU |
| Acrylic acid | in vivo Corrosive EU |
| 2-Propenoic acid, 2-(phosphonoxy)ethyl ester | No data available. |
| Bis[2-(acryloyloxy)ethyl] hydrogen phosphate | No data available. |
| Triphenyl phosphite | in vivo Irritating EU |

Respiratory or Skin

Sensitization:

Product: May cause an allergic skin reaction.

Components:

| | |
|---|--|
| 2-Phenoxyethyl acrylate | No data available. |
| 2-Hydroxy-3-phenoxypropyl acrylate | No data available. |
| Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide | No data available. |
| 2-phenoxyethyl prop-2-enoate | No data available. |
| 2-phenoxyethanol | Skin sensitization:, in vivo (Guinea pig): Non sensitising |
| Propylidynetrimethanol, ethoxylated, esters with acrylic acid | Skin sensitization:, in vivo (Guinea pig): Sensitising |
| Acrylic acid | Skin sensitization:, in vivo (Guinea pig): Non sensitising |
| 2-Propenoic acid, 2-(phosphonoxy)ethyl ester | No data available. |
| Bis[2-(acryloyloxy)ethyl] hydrogen phosphate | No data available. |

SAFETY DATA SHEET

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

Triphenyl phosphite No data available.

Germ Cell Mutagenicity

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

In vitro

Components:

| | |
|---|--------------------|
| 2-Phenoxyethyl acrylate | No data available. |
| 2-Hydroxy-3-phenoxypropyl acrylate | No data available. |
| Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide | No data available. |
| 2-phenoxyethyl prop-2-enoate | No data available. |
| 2-phenoxyethanol | No data available. |
| Propylidynetrimethanol, ethoxylated, esters with acrylic acid | No data available. |
| Acrylic acid | No data available. |
| 2-Propenoic acid, 2-(phosphonoxy)ethyl ester | No data available. |
| Bis[2-(acryloyloxy)ethyl]hydrogen phosphate | No data available. |
| Triphenyl phosphite | No data available. |

In vivo

Components:

| | |
|---|--------------------|
| 2-Phenoxyethyl acrylate | No data available. |
| 2-Hydroxy-3-phenoxypropyl acrylate | No data available. |
| Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide | No data available. |
| 2-phenoxyethyl prop-2-enoate | No data available. |
| 2-phenoxyethanol | No data available. |
| Propylidynetrimethanol, ethoxylated, esters with acrylic acid | No data available. |
| Acrylic acid | No data available. |
| 2-Propenoic acid, 2-(phosphonoxy)ethyl ester | No data available. |
| Bis[2-(acryloyloxy)ethyl]hydrogen phosphate | No data available. |
| Triphenyl phosphite | No data available. |

Carcinogenicity

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

Components:

| | |
|------------------------------------|--------------------|
| 2-Phenoxyethyl acrylate | No data available. |
| 2-Hydroxy-3-phenoxypropyl acrylate | No data available. |

SAFETY DATA SHEET

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

| | |
|---|--------------------|
| Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide | No data available. |
| 2-phenoxyethyl prop-2-enoate | No data available. |
| 2-phenoxyethanol | No data available. |
| Propylidynetrimethanol, ethoxylated, esters with acrylic acid | No data available. |
| Acrylic acid | No data available. |
| 2-Propenoic acid, 2-(phosphonooxy)ethyl ester | No data available. |
| Bis[2-(acryloyloxy)ethyl]hydrogen phosphate | No data available. |
| Triphenyl phosphite | No data available. |

Reproductive toxicity

Product: Suspected of damaging fertility. Suspected of damaging the unborn child.

Components:

| | |
|---|--------------------|
| 2-Phenoxyethyl acrylate | No data available. |
| 2-Hydroxy-3-phenoxypropyl acrylate | No data available. |
| Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide | No data available. |
| 2-phenoxyethyl prop-2-enoate | No data available. |
| 2-phenoxyethanol | No data available. |
| Propylidynetrimethanol, ethoxylated, esters with acrylic acid | No data available. |
| Acrylic acid | No data available. |
| 2-Propenoic acid, 2-(phosphonooxy)ethyl ester | No data available. |
| Bis[2-(acryloyloxy)ethyl]hydrogen phosphate | No data available. |
| Triphenyl phosphite | No data available. |

Specific Target Organ Toxicity - Single Exposure

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

Components:

| | |
|---|--------------------|
| 2-Phenoxyethyl acrylate | No data available. |
| 2-Hydroxy-3-phenoxypropyl acrylate | No data available. |
| Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide | No data available. |
| 2-phenoxyethyl prop-2-enoate | No data available. |
| 2-phenoxyethanol | No data available. |

SAFETY DATA SHEET

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

| | |
|--|--------------------|
| Propylidynetrimehanol, ethoxylated, esters with acrylic acid | No data available. |
| Acrylic acid | No data available. |
| 2-Propenoic acid, 2-(phosphonoxy)ethyl ester | No data available. |
| Bis[2-(acryloyloxy)ethyl] hydrogen phosphate | No data available. |
| Triphenyl phosphite | No data available. |

Specific Target Organ Toxicity - Repeated Exposure

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

Components:

| | |
|--|--------------------|
| 2-Phenoxyethyl acrylate | No data available. |
| 2-Hydroxy-3-phenoxypropyl acrylate | No data available. |
| Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide | No data available. |
| 2-phenoxyethyl prop-2-enoate | No data available. |
| 2-phenoxyethanol | No data available. |
| Propylidynetrimehanol, ethoxylated, esters with acrylic acid | No data available. |
| Acrylic acid | No data available. |
| 2-Propenoic acid, 2-(phosphonoxy)ethyl ester | No data available. |
| Bis[2-(acryloyloxy)ethyl] hydrogen phosphate | No data available. |
| Triphenyl phosphite | No data available. |

Aspiration Hazard

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

Components:

| | |
|--|--------------------|
| 2-Phenoxyethyl acrylate | No data available. |
| 2-Hydroxy-3-phenoxypropyl acrylate | No data available. |
| Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide | No data available. |
| 2-phenoxyethyl prop-2-enoate | No data available. |
| 2-phenoxyethanol | No data available. |
| Propylidynetrimehanol, ethoxylated, esters with acrylic acid | No data available. |
| Acrylic acid | No data available. |
| 2-Propenoic acid, 2-(phosphonoxy)ethyl ester | No data available. |
| Bis[2-(acryloyloxy)ethyl] hydrogen phosphate | No data available. |

SAFETY DATA SHEET

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

Triphenyl phosphite

No data available.

SECTION 12: Ecological information

General information: Contains a substance which causes risk of hazardous effects to the environment.

12.1 Toxicity

Acute toxicity

Remarks:

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

Fish

Product: No data available.

Components

2-Phenoxyethyl acrylate No data available.

2-Hydroxy-3- No data available.

phenoxypropyl acrylate

Diphenyl(2,4,6- No data available.

trimethylbenzoyl)phosphi
ne oxide

2-phenoxyethyl prop-2- No data available.

enoate

2-phenoxyethanol

LC 50 (Pimephales promelas, 96 h): 344 mg/l (flow-through) Experimental result, Key study

LC 50 (Oncorhynchus nerka, 8 h): 333 mg/l Experimental result, Not specified

Propylidynetrimehanol,
ethoxylated, esters with
acrylic acid

LC 50 (Danio rerio, 96 h): 1.95 mg/l (Static) Experimental result, Key study

Acrylic acid

LC 50 (Carp (Leuciscus idus melanotus), 48 h): 315 mg/l Mortality

LC 50 (Oncorhynchus mykiss, 96 h): 27 mg/l (flow-through) Experimental result, Key study

LC 50 (Cyprinodon variegatus, 96 h): 236 mg/l (flow-through) Experimental result, Key study

LC 50 (Danio rerio, 96 h): 222 mg/l (semi-static) Experimental result, Supporting study

No data available.

2-Propenoic acid, 2-
(phosphonoxy)ethyl
ester

Bis[2-(acryloyloxy)ethyl] No data available.

hydrogen phosphate

Triphenyl phosphite No data available.

Aquatic Invertebrates

Product: No data available.

Components

2-Phenoxyethyl acrylate EC 50 (Daphnia magna, 48 h): 1.21 mg/l (Static) Experimental result, Key study

2-Hydroxy-3- No data available.

phenoxypropyl acrylate

SAFETY DATA SHEET

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

| | |
|---|---|
| Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide | EC 50 (Daphnia magna, 48 h): 3.53 mg/l (Static) Experimental result, Key study |
| 2-phenoxyethyl prop-2-enoate | No data available. |
| 2-phenoxyethanol | LC 50 (Daphnia magna, 48 h): 488 mg/l (Static) Experimental result, Supporting study |
| Propylidynetrimethanol, ethoxylated, esters with acrylic acid | EC 50 (Daphnia magna, 48 h): 70.7 mg/l (Static) Experimental result, Key study |
| Acrylic acid | LC 50 (Americamysis bahia, 96 h): 97 mg/l (flow-through) Experimental result, Key study |
| | EC 50 (Daphnia magna, 48 h): 95 mg/l (flow-through) Experimental result, Key study |
| | EC 50 (Daphnia magna, 48 h): 47 mg/l (Static) Experimental result, Supporting study |
| 2-Propenoic acid, 2-(phosphonoxy)ethyl ester | No data available. |
| Bis[2-(acryloyloxy)ethyl]hydrogen phosphate | No data available. |
| Triphenyl phosphite | No data available. |

Toxicity to Aquatic Plants

Product: No data available.

Components

| | |
|---|--------------------|
| 2-Phenoxyethyl acrylate | No data available. |
| 2-Hydroxy-3-phenoxypropyl acrylate | No data available. |
| Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide | No data available. |
| 2-phenoxyethyl prop-2-enoate | No data available. |
| 2-phenoxyethanol | No data available. |
| Propylidynetrimethanol, ethoxylated, esters with acrylic acid | No data available. |
| Acrylic acid | No data available. |
| 2-Propenoic acid, 2-(phosphonoxy)ethyl ester | No data available. |
| Bis[2-(acryloyloxy)ethyl]hydrogen phosphate | No data available. |
| Triphenyl phosphite | No data available. |

Toxicity to microorganisms

Product: No data available.

Components

| | |
|---|--------------------|
| 2-Phenoxyethyl acrylate | No data available. |
| 2-Hydroxy-3-phenoxypropyl acrylate | No data available. |
| Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide | No data available. |

SAFETY DATA SHEET

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

| | |
|---|--|
| 2-phenoxyethyl prop-2-enoate | No data available. |
| 2-phenoxyethanol | EC50 (waste sludge, 17 h): > 880 mg/l (OECD-Guideline No.209; 88/302/EEC C.11) |
| Propylidynetrimethanol, ethoxylated, esters with acrylic acid | EC10 (3 h): 292 mg/l (OECD-Guideline No.209; 88/302/EEC C.11) |
| Acrylic acid | EC50 (waste sludge): 10 mg/l (QSAR) |
| 2-Propenoic acid, 2-(phosphonooxy)ethyl ester | No data available. |
| Bis[2-(acryloyloxy)ethyl]hydrogen phosphate | No data available. |
| Triphenyl phosphite | No data available. |

Chronic Toxicity

Remarks:

Toxic to aquatic life with long lasting effects.

Fish

Product: No data available.

Components

| | |
|---|--|
| 2-Phenoxyethyl acrylate | No data available. |
| 2-Hydroxy-3-phenoxypropyl acrylate | No data available. |
| Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide | No data available. |
| 2-phenoxyethyl prop-2-enoate | No data available. |
| 2-phenoxyethanol | NOAEL (Pimephales promelas, 34 d): 23 mg/l (flow-through) Experimental result, Key study |
| Propylidynetrimethanol, ethoxylated, esters with acrylic acid | No data available. |
| Acrylic acid | No data available. |
| 2-Propenoic acid, 2-(phosphonooxy)ethyl ester | No data available. |
| Bis[2-(acryloyloxy)ethyl]hydrogen phosphate | No data available. |
| Triphenyl phosphite | No data available. |

Aquatic Invertebrates

Product: No data available.

Components

| | |
|---|--------------------|
| 2-Phenoxyethyl acrylate | No data available. |
| 2-Hydroxy-3-phenoxypropyl acrylate | No data available. |
| Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide | No data available. |
| 2-phenoxyethyl prop-2- | No data available. |

SAFETY DATA SHEET

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

| | |
|---|--------------------|
| enoate | |
| 2-phenoxyethanol | No data available. |
| Propylidynetrimethanol, ethoxylated, esters with acrylic acid | No data available. |
| Acrylic acid | No data available. |
| 2-Propenoic acid, 2-(phosphonoxy)ethyl ester | No data available. |
| Bis[2-(acryloyloxy)ethyl] hydrogen phosphate | No data available. |
| Triphenyl phosphite | No data available. |

Toxicity to Aquatic Plants

Product: No data available.

Components

| | |
|---|--------------------|
| 2-Phenoxyethyl acrylate | No data available. |
| 2-Hydroxy-3-phenoxypropyl acrylate | No data available. |
| Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide | No data available. |
| 2-phenoxyethyl prop-2-enoate | No data available. |
| 2-phenoxyethanol | No data available. |
| Propylidynetrimethanol, ethoxylated, esters with acrylic acid | No data available. |
| Acrylic acid | No data available. |
| 2-Propenoic acid, 2-(phosphonoxy)ethyl ester | No data available. |
| Bis[2-(acryloyloxy)ethyl] hydrogen phosphate | No data available. |
| Triphenyl phosphite | No data available. |

12.2 Persistence and Degradability

Biodegradation

Product: No data available.

Components

| | |
|---|--|
| 2-Phenoxyethyl acrylate | (28 d): 22.3 % Detected in water. Experimental result, Key study |
| 2-Hydroxy-3-phenoxypropyl acrylate | No data available. |
| Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide | (28 d): > 0 - 10 % Detected in water. Experimental result, Key study |
| 2-phenoxyethyl prop-2-enoate | No data available. |
| 2-phenoxyethanol | 90 % Experimental result, Key study Detected in water. |
| Propylidynetrimethanol, ethoxylated, esters with acrylic acid | (28 d): 58 - 61 % Experimental result, Key study Detected in water. |
| Acrylic acid | 100 % Detected in water. Experimental result, Key study |

SAFETY DATA SHEET

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

| | |
|--|--------------------|
| 2-Propenoic acid, 2-(phosphonoxy)ethyl ester | No data available. |
| Bis[2-(acryloyloxy)ethyl]hydrogen phosphate | No data available. |
| Triphenyl phosphite | No data available. |

BOD/COD Ratio

| | |
|----------------|--------------------|
| Product | No data available. |
|----------------|--------------------|

Components

| | |
|---|--------------------|
| 2-Phenoxyethyl acrylate | No data available. |
| 2-Hydroxy-3-phenoxypropyl acrylate | No data available. |
| Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide | No data available. |
| 2-phenoxyethyl prop-2-enoate | No data available. |
| 2-phenoxyethanol | No data available. |
| Propylidynetrimethanol, ethoxylated, esters with acrylic acid | No data available. |
| Acrylic acid | No data available. |
| 2-Propenoic acid, 2-(phosphonoxy)ethyl ester | No data available. |
| Bis[2-(acryloyloxy)ethyl]hydrogen phosphate | No data available. |
| Triphenyl phosphite | No data available. |

12.3 Bioaccumulative potential

| | |
|-----------------|--------------------|
| Product: | No data available. |
|-----------------|--------------------|

Components

| | |
|---|--|
| 2-Phenoxyethyl acrylate | No data available. |
| 2-Hydroxy-3-phenoxypropyl acrylate | No data available. |
| Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide | Cyprinus carpio, Bioconcentration Factor (BCF): 53 - 72 Aquatic sediment Experimental result, Key study |
| 2-phenoxyethyl prop-2-enoate | No data available. |
| 2-phenoxyethanol | Estimated by calculation, Not specified Aquatic sediment Estimated by calculation, Key study Aquatic sediment |
| Propylidynetrimethanol, ethoxylated, esters with acrylic acid | No data available. |
| Acrylic acid | No data available. |
| 2-Propenoic acid, 2-(phosphonoxy)ethyl ester | No data available. |
| Bis[2-(acryloyloxy)ethyl]hydrogen phosphate | No data available. |
| Triphenyl phosphite | No data available. |

SAFETY DATA SHEET

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

12.4 Mobility in soil

Product: No data available.

Components

| | |
|---|--------------------|
| 2-Phenoxyethyl acrylate | No data available. |
| 2-Hydroxy-3-phenoxypropyl acrylate | No data available. |
| Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide | No data available. |
| 2-phenoxyethyl prop-2-enoate | No data available. |
| 2-phenoxyethanol | No data available. |
| Propylidynetrimethanol, ethoxylated, esters with acrylic acid | No data available. |
| Acrylic acid | No data available. |
| 2-Propenoic acid, 2-(phosphonoxy)ethyl ester | No data available. |
| Bis[2-(acryloyloxy)ethyl]hydrogen phosphate | No data available. |
| Triphenyl phosphite | No data available. |

12.5 Results of PBT and vPvB assessment

Product: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Components

| | |
|---|--------------------|
| 2-Phenoxyethyl acrylate | No data available. |
| 2-Hydroxy-3-phenoxypropyl acrylate | No data available. |
| Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide | No data available. |
| 2-phenoxyethyl prop-2-enoate | No data available. |
| 2-phenoxyethanol | No data available. |
| Propylidynetrimethanol, ethoxylated, esters with acrylic acid | No data available. |
| Acrylic acid | No data available. |
| 2-Propenoic acid, 2-(phosphonoxy)ethyl ester | No data available. |
| Bis[2-(acryloyloxy)ethyl]hydrogen phosphate | No data available. |
| Triphenyl phosphite | No data available. |

12.6 Other adverse effects: Toxic to aquatic life with long lasting effects.

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 13: Disposal considerations

13.1 Waste treatment methods

| | |
|--------------------------------|--|
| General information: | Disposal considerations (including disposal of contaminated containers or packaging) Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal. |
| Disposal methods: | Discharge, treatment, or disposal may be subject to national, state, or local laws. Since emptied containers retain product residue, follow label warnings even after container is emptied. |
| Contaminated Packaging: | Dispose in accordance with all applicable regulations. |

SECTION 14: Transport information

ADR

| | |
|------------------------------------|---|
| 14.1 UN number or ID number: | UN 3082 |
| 14.2 UN Proper Shipping Name: | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(Acrylate) |
| 14.3 Transport Hazard Class(es) | |
| Class: | 9 |
| Label(s): | 9 |
| Hazard No. (ADR): | 90 |
| Tunnel restriction code: | (-) |
| 14.4 Packing Group: | III |
| Limited quantity | 5.00L |
| Excepted quantity | E1 |
| 14.5 Environmental Hazards: | Yes |
| 14.6 Special precautions for user: | SPECIAL PROVISION 375 (<= 5kg/<= 5L) |

RID

| | |
|------------------------------------|---|
| 14.1 UN number or ID number: | UN 3082 |
| 14.2 UN Proper Shipping Name | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(Acrylate) |
| 14.3 Transport Hazard Class(es) | |
| Class: | 9 |
| Label(s): | 9 |
| 14.4 Packing Group: | III |
| 14.5 Environmental Hazards: | Yes |
| 14.6 Special precautions for user: | - |

ADN

| | |
|---------------------------------|---|
| 14.1 UN number or ID number: | UN 3082 |
| 14.2 UN Proper Shipping Name | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(Acrylate) |
| 14.3 Transport Hazard Class(es) | |
| Class: | 9 |
| Label(s): | 9 |

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

14.4 Packing Group: III
 14.5 Environmental Hazards: Yes
 14.6 Special precautions for user: SPECIAL PROVISION 375 (<= 5kg/<= 5L)

IMDG

14.1 UN number or ID number: UN 3082
 14.2 UN Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(Acrylate)
 14.3 Transport Hazard Class(es)
 Class: 9
 Label(s): 9
 EmS No.: F-A, S-F
 14.4 Packing Group: III
 <03EHS_L_TEXT(ZAGFA-ARI-S-100017321)[D:Limited quantity]> 5.00L
 Excepted quantity E1
 14.5 Environmental Hazards: Environmentally Hazardous
 14.6 Special precautions for user: CODE 2.10.2.7 if packaging <= 5L or <= 5kg

IATA

14.1 UN number or ID number: UN 3082
 14.2 Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s.(Acrylate)
 14.3 Transport Hazard Class(es):
 Class: 9
 Label(s): 9MI
 14.4 Packing Group: III
 Excepted quantity E1
 14.5 Environmental Hazards: Yes
 14.6 Special precautions for user: SPECIAL PROVISION A197 if packaging <= 5L or <= 5kg

Other information

Passenger and cargo aircraft: Allowed.

Cargo aircraft only: Allowed.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code: not applicable

SECTION 15: Regulatory information

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

EU Regulations

EU. REACH Candidate List of Substances of Very High Concern for Authorization (SVHC): None present or none present in regulated quantities.

EU. REACH Annex XIV, Substances Subject to Authorization: None present or none present in regulated quantities.

EU. Regulation 2019/1021/EU on persistent organic pollutants (POPs) (recast), as amended: None present or none present in regulated quantities.

Regulation 1005/2009/EC on substances that deplete the ozone layer, Annex I, Controlled

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Substances: None present or none present in regulated quantities.

Regulation 1005/2009/EC on substances that deplete the ozone layer, Annex II, New Substances:

None present or none present in regulated quantities.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended: None present or none present in regulated quantities.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended: None present or none present in regulated quantities.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended: None present or none present in regulated quantities.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended: None present or none present in regulated quantities.

EU. Directive 2012/18/EU (SEVESO III) on major accident hazards involving dangerous substances, Annex I:

| Classification | Lower-tier Requirements | Upper-tier Requirements |
|--|-------------------------|-------------------------|
| E2. Hazardous to the aquatic environment | 200 t | 500 t |

15.2 Chemical safety assessment:

No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

Abbreviations and acronyms:

| | |
|----------|---|
| ADR | Accord européen relatif au transport international des marchandises Dangereuses par Route |
| ADNR | Accord européen relatif au transport international des marchandises Dangereuses par la Rhin |
| AGW | Arbeitsplatzgrenzwerte (DE) |
| ATEmix | Acute toxicity estimate of the mixture |
| CLP | Classification, Labelling and Packaging of substances and mixtures |
| CMR | carcinogenicity, mutagenicity and toxicity for reproduction |
| DNEL | Derived No Effect Level |
| EC0 | Effective Concentration 0% |
| EC5 | Effective Concentration 5% |
| EC10 | Effective Concentration 10% |
| EC50 | Median Effective Concentration |
| EC100 | Effective Concentration 100% |
| EH40 WEL | Workplace Exposure Limit (GB) |
| IATA | International Air Transport Association |
| ICAO | International Civil Aviation Organization |
| IC50 | inhibitory concentration 50% |
| IMDG | International Maritime Dangerous Goods |
| IMO | International Maritime Organization |
| IUCLID | International Uniform Chemical Information Database |
| LC50 | Lethal Concentration 50% |
| LC100 | Lethal Concentration 100% |
| LOAEL | Lowest Observed Adverse Effect Level |

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

| | |
|---------|---|
| LDL0 | Lethal Dose (minimum found to be lethal) |
| LD50 | Lethal Dose 50% |
| MAC | Maximaal Aanvaardbare Concentratie (NL) |
| MAK | Maximale Arbeitsplatz-Konzentration |
| NOAEL | No Observed Adverse Effect Level |
| NOEL | No Observed Effect Level |
| NOEC | No Observed Effect Concentration |
| OEL | Occupational Exposure Limit |
| PBT | Persistent, Bioaccumulative and Toxic substance |
| PNEC | Predicted No Effect Concentration |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals |
| RID | Regulations concerning the International Transport of Dangerous Goods by Rail |
| STEL | Short Term Exposure Limit |
| TLV | Treshold Limit Value |
| TRGS900 | Arbeitsplatzgrenswerte (DE) |
| TWA | Time Weighted Average |
| VOC | Volatile Organic Compound |
| vPvB | very Persistent and very Bioaccumulative substance |

Notes:

| | | |
|--------------|--------|--|
| Acrylic acid | Note D | Certain substances which are susceptible to spontaneous polymerisation or decomposition are generally placed on the market in a stabilised form. It is in this form that they are listed in Part 3. However, such substances are sometimes placed on the market in a non-stabilised form. In this case, the supplier must state on the label the name of the substance followed by the words 'non-stabilised'. |
| | Note D | Certain substances which are susceptible to spontaneous polymerisation or decomposition are generally placed on the market in a stabilised form. It is in this form that they are listed in Part 3. However, such substances are sometimes placed on the market in a non-stabilised form. In this case, the supplier must state on the label the name of the substance followed by the words 'non-stabilised'. |

Key literature references and sources for data:

Safety Data Sheet from the supplier.
ECHA

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 |
|--|--------------------------|
| Serious eye damage, Category 1 | Calculation method |
| Skin sensitizer, Category 1 | Calculation method |
| Toxic to reproduction, Category 2 | Calculation method |
| Chronic hazards to the aquatic environment, Category 2 | Calculation method |

Wording of the statements in section 2 and 3

SAFETY DATA SHEET

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

| | |
|--------|--|
| H226 | Flammable liquid and vapor. |
| H302 | Harmful if swallowed. |
| H312 | Harmful in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H332 | Harmful if inhaled. |
| H335 | May cause respiratory irritation. |
| H361d | Suspected of damaging the unborn child. |
| H361f | Suspected of damaging fertility. |
| H361fd | Suspected of damaging fertility. Suspected of damaging the unborn child. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H411 | Toxic to aquatic life with long lasting effects. |

Training information:

Follow training instructions when handling this material.

Disclaimer:

This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.