

# SAFETY DATA SHEET

Weidmüller 

PJM INK K – Art.-Nr. 3062650000

## Section 1. Identification of the substance/mixture and of the company/undertaking

**Product identifier** : PJM INK K – Art.-Nr. 3062650000  
**Product code** : Not available.  
**Other means of identification** : Not available.  
**Product type** : Liquid.

### Recommended use of the chemical and restrictions on use

**Product use** : Ink. Paint.  
**Area of application** : Professional applications.  
**Supplier's details**

Weidmüller Interface GmbH & Co. KG  
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32758 Detmold  
Germany  
Tel.: +49 5231 14-0  
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E-Mail: [info@weidmueller.de](mailto:info@weidmueller.de)  
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**e-mail address of person responsible for this SDS** : [info@chemical-check.de](mailto:info@chemical-check.de); [k.schnurbusch@chemical-check.de](mailto:k.schnurbusch@chemical-check.de)

**Emergency telephone number (with hours of operation)** : +49 (0) 700 / 24 112 112 (WR)

## Section 2. Hazards identification

**Classification of the substance or mixture** : H225 FLAMMABLE LIQUIDS - Category 2  
H315 SKIN CORROSION/IRRITATION - Category 2  
H318 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1  
H317 SKIN SENSITISATION - Category 1  
H361 REPRODUCTIVE TOXICITY - Category 2  
H336 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Narcotic effects) - Category 3  
H373 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2  
H411 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2

### GHS label elements

**Hazard pictograms** :



**Signal word** : Danger

## Section 2. Hazards identification

<b>Hazard statements</b>	: Highly flammable liquid and vapour. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. May cause drowsiness or dizziness. Suspected of damaging fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure. Toxic to aquatic life with long lasting effects.
<b>Precautionary statements</b>	
<b>Prevention</b>	: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P271 - Use only outdoors or in a well-ventilated area. P273 - Avoid release to the environment. P261 - Avoid breathing vapour or spray. P264 - Wash thoroughly after handling. P280 - Wear protective gloves/protective clothing/eye protection/face protection.
<b>Response</b>	: P391 - Collect spillage. P318 - IF exposed or concerned, get medical advice. P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse affected areas with water. P302 + P352 - IF ON SKIN: Wash with plenty of water. P333 + P317 - If skin irritation or rash occurs: Get medical help. P332 + P317 - If skin irritation occurs: Get medical help. P362 + P364 - Take off contaminated clothing and wash it before reuse. P305 + P354 + P338, P317 - IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical help. P319 - Get medical help if you feel unwell.
<b>Storage</b>	: P405 - Store locked up.
<b>Disposal</b>	: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

**Other hazards which do not result in classification** : None known.

## Section 3. Composition/information on ingredients

<b>Substance/mixture</b>	: Mixture
<b>Other means of identification</b>	: Not available.

Ingredient name	%	Identifiers
acetone	≥60 - ≤75	CAS: 67-64-1
butanone	≥10 - ≤30	CAS: 78-93-3
2-Propenoic acid, reaction products with pentaerythritol	≥10 - ≤15	CAS: 1245638-61-2
4-(1-oxo-2-propenyl)-morpholine	≤10	CAS: 5117-12-4
oxybis(methyl-2,1-ethanediyl) diacrylate	≤10	CAS: 57472-68-1
2-isopropyl-9H-thioxanthen-9-one	≥1 - ≤5	CAS: 5495-84-1
phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	≤1	CAS: 162881-26-7

**Date of issue/Date of revision** : 2025/11/24 **Date of previous issue** : No previous validation **Version** : 1 2/17

## Section 3. Composition/information on ingredients

Glycerol, propoxylated, esters with acrylic acid	<1	CAS: 52408-84-1
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There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

## Section 4. First aid measures

### Description of necessary first aid measures

- Eye contact** : Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.
- Inhalation** : Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Skin contact** : Get medical attention immediately. Call a poison center or physician. Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

- Eye contact** : Causes serious eye damage.
- Inhalation** : Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
- Skin contact** : Causes skin irritation. May cause an allergic skin reaction.
- Ingestion** : Can cause central nervous system (CNS) depression.

#### Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:  
pain  
watering  
redness

## Section 4. First aid measures

- Inhalation** : Adverse symptoms may include the following:  
 nausea or vomiting  
 headache  
 drowsiness/fatigue  
 dizziness/vertigo  
 unconsciousness  
 reduced foetal weight  
 increase in foetal deaths  
 skeletal malformations
- Skin contact** : Adverse symptoms may include the following:  
 pain or irritation  
 redness  
 blistering may occur  
 reduced foetal weight  
 increase in foetal deaths  
 skeletal malformations
- Ingestion** : Adverse symptoms may include the following:  
 stomach pains  
 reduced foetal weight  
 increase in foetal deaths  
 skeletal malformations

### Indication of immediate medical attention and special treatment needed, if necessary

- Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Specific treatments** : No specific treatment.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

## Section 5. Firefighting measures

### Extinguishing media

- Suitable extinguishing media** : Use dry chemical, CO<sub>2</sub>, alcohol-resistant foam or water spray (fog).
- Unsuitable extinguishing media** : Do not use water jet.

- Specific hazards arising from the chemical** : Highly flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
 carbon dioxide  
 carbon monoxide  
 nitrogen oxides  
 sulfur oxides  
 Toxic gases  
 Flammable vapor/air mixtures.

## Section 5. Firefighting measures

- Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- For emergency responders** : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
- Environmental precautions** : Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

### Methods and material for containment and cleaning up

- Small spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

## Section 7. Handling and storage

### Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

## Section 7. Handling and storage

- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
- Conditions for safe storage, including any incompatibilities** : Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidising materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

## Section 8. Exposure controls/personal protection

### Control parameters

#### Occupational exposure limits

Ingredient name	Exposure limits
acetone	<b>DOL OEL (South Africa, 3/2021)</b> TWA 8 hours: 500 ppm. STEL 15 minutes: 1000 ppm.
butanone	<b>DOL OEL (South Africa, 3/2021)</b> Absorbed through skin. TWA 8 hours: 400 ppm. STEL 15 minutes: 600 ppm.

#### Biological exposure indices

Ingredient name	Exposure indices
acetone	<b>DOL BEI (South Africa, 3/2021)</b> BEI: 25 mg/l, acetone [in urine]. Sampling time: end of shift.
butanone	<b>DOL BEI (South Africa, 3/2021)</b> BEI: 2 mg/l, methyl ethyl ketone [in urine]. Sampling time: end of shift.

- Appropriate engineering controls** : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### Individual protection measures

- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.



## Section 8. Exposure controls/personal protection

- Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.
- Skin protection**
- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. 4 - 8 hours (breakthrough time): Recommended: Nitrile gloves. (<=0.5mm). Protective hand cream.
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. Recommended: In case of inadequate ventilation wear respiratory protection. Gas mask Filter A.

## Section 9. Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

### Appearance

- Physical state** : Liquid.
- Colour** : Black.
- Odour** : Characteristic.
- Odour threshold** : Not available.
- pH** : Not available.
- Melting point/freezing point** : Not available.
- Boiling point or initial boiling point and boiling range** : >35°C (>95°F)
- Flash point** : Closed cup: -14.5°C (5.9°F)
- Evaporation rate** : Not available.
- Flammability** : Not available.
- Lower and upper explosion limit/flammability limit** : Not available.
- Vapour pressure** :

Ingredient name	Vapour Pressure at 20°C			Vapour pressure at 50°C		
	mm Hg	kPa	Method	mm Hg	kPa	Method
acetone	180.01463	24				

## Section 9. Physical and chemical properties

**Relative vapour density** : Not available.

**Relative density** : Not available.

**Density** : 0.887 to 0.893 g/cm<sup>3</sup> [20°C (68°F)]

**Solubility(ies)** : Not available.

**Solubility in water** : Not available.

**Partition coefficient: n-octanol/water** : Not applicable.

<b>Auto-ignition temperature</b> :	<b>Ingredient name</b>	<b>°C</b>	<b>°F</b>	<b>Method</b>
	butanone	404	759.2	

**Decomposition temperature** : Not available.

**Viscosity** : Dynamic (room temperature): 0.97 to 1.03 mPa·s (0.97 to 1.03 cP)  
Kinematic (room temperature): Not available.  
Kinematic (40°C (104°F)): Not available.

### Particle characteristics

**Median particle size** : Not applicable.

### Other information

**Physical/chemical properties comments** : Surface tension: 21,3-21,9 mN/m (20°C)

## Section 10. Stability and reactivity

**Reactivity** : No specific test data related to reactivity available for this product or its ingredients.

**Chemical stability** : The product is stable.

**Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.  
Under normal conditions of storage and use, hazardous polymerisation will not occur.

**Conditions to avoid** : Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.  
Take precautionary measures against electrostatic discharges.

**Incompatible materials** : Reactive or incompatible with the following materials:  
oxidising materials  
Reactive or incompatible with the following materials: reducing materials and alkalis.

**Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result
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## Section 11. Toxicological information

acetone	<b>Rat - Oral - LD50</b> 5800 mg/kg  <b>Rat - Dermal - LD50</b> >15800 mg/kg <b>Rat - Inhalation - LC50 Dusts and mists</b> 76 mg/l [4 hours]	<u>Toxic effects:</u> Behavioral - Altered sleep time (including change in righting reflex) Behavioral - Tremor
butanone	<b>Rabbit - Dermal - LD50</b> 6480 mg/kg <b>Rat - Oral - LD50</b> 2737 mg/kg <b>Rat - Inhalation - LC50 Dusts and mists</b> 34.5 mg/l [4 hours]	
4-(1-oxo-2-propenyl)-morpholine	<b>Rat - Male, Female - Oral - LD50</b> 588 mg/kg <b>Rat - Male, Female - Dermal - LD50</b> >2000 mg/kg	OECD 401 [Acute Oral Toxicity] OECD 402 [Acute Dermal Toxicity]
oxybis(methyl-2,1-ethanediyl) diacrylate	<b>Rabbit - Male, Female - Dermal - LD50</b> >2000 mg/kg <b>Rat - Oral - LD50</b> 2810 mg/kg	OECD [Acute Dermal Toxicity] OECD [Acute Oral Toxicity]
phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	<b>Rat - Oral - LD50</b> >2000 mg/kg <b>Rat - Dermal - LD50</b> >2000 mg/kg	OECD [Acute Oral Toxicity] OECD [Acute Dermal Toxicity]
Glycerol, propoxylated, esters with acrylic acid	<b>Rat - Oral - LD50</b> >2000 mg/kg <b>Rat - Dermal - LD50</b> >2000 mg/kg	OECD [Acute Oral Toxicity] OECD [Acute Dermal Toxicity]

**Conclusion/Summary[Product]** : Not available.

### Skin corrosion/irritation

#### Product/ingredient name

acetone

#### Result

##### **Rabbit - Skin - Mild irritant**

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 500 mg

##### **Rabbit - Skin - Mild irritant**

Amount/concentration applied: 395 mg

butanone

##### **Rabbit - Skin - Mild irritant**

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 14 mg

##### **Rabbit - Skin - Mild irritant**

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 402 mg

oxybis(methyl-2,1-ethanediyl) diacrylate

##### **Rabbit - Skin - Severe irritant**

Amount/concentration applied: 500 mg

## Section 11. Toxicological information

**Conclusion/Summary[Product]** : Not available.

### Serious eye damage/eye irritation

#### **Product/ingredient name**

acetone

#### **Result**

**Rabbit - Eyes - Moderate irritant**

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 20 mg

**Rabbit - Eyes - Severe irritant**

Amount/concentration applied: 20 mg

**Human - Eyes - Mild irritant**

Amount/concentration applied: 186300 ppm

**Rabbit - Eyes - Mild irritant**

Amount/concentration applied: 10 uL

**Rabbit - Eyes - Severe irritant**

Amount/concentration applied: 100 mg

oxybis(methyl-2,1-ethanediyl) diacrylate

**Conclusion/Summary[Product]** : Not available.

### Respiratory corrosion/irritation

**Conclusion/Summary[Product]** : Not available.

### Respiratory or skin sensitization

#### **Product/ingredient name**

acetone

#### **Result**

**Guinea pig - Respiratory**

Result: Not sensitizing

OECD [Skin Sensitization]

oxybis(methyl-2,1-ethanediyl) diacrylate

**Mouse - skin**

Result: Sensitising

OECD [Skin Sensitization]

### **Skin**

**Conclusion/Summary[Product]** : Not available.

### **Respiratory**

**Conclusion/Summary[Product]** : Not available.

### Germ cell mutagenicity

#### **Product/ingredient name**

acetone

#### **Result**

**Mammalian-Animal - Germ**

Result: Negative

OECD [In vitro Mammalian Cell Gene Mutation Test]

**Bacteria**

Result: Negative

OECD [Bacterial Reverse Mutation Test]

**Mammalian-Human**

Result: Negative

OECD [In vitro Mammalian Chromosomal Aberration Test]

butanone

**Bacteria**

Result: Negative

OECD [Bacterial Reverse Mutation Test]

**Conclusion/Summary[Product]** : Not available.

## Section 11. Toxicological information

### Carcinogenicity

**Conclusion/Summary[Product]** : Not available.

### Reproductive toxicity

**Conclusion/Summary[Product]** : Not available.

### Specific target organ toxicity (single exposure)

#### **Product/ingredient name**

acetone

butanone

#### **Result**

SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Narcotic effects) - Category 3

SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Narcotic effects) - Category 3

### Specific target organ toxicity (repeated exposure)

#### **Product/ingredient name**

4-(1-oxo-2-propenyl)-morpholine

#### **Result**

SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2

### Aspiration hazard

Not available.

### Information on likely routes of exposure

Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.

### Potential acute health effects

- Eye contact** : Causes serious eye damage.
- Inhalation** : Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
- Skin contact** : Causes skin irritation. May cause an allergic skin reaction.
- Ingestion** : Can cause central nervous system (CNS) depression.

### Symptoms related to the physical, chemical and toxicological characteristics

- Eye contact** : Adverse symptoms may include the following:
  - pain
  - watering
  - redness
- Inhalation** : Adverse symptoms may include the following:
  - nausea or vomiting
  - headache
  - drowsiness/fatigue
  - dizziness/vertigo
  - unconsciousness
  - reduced foetal weight
  - increase in foetal deaths
  - skeletal malformations

## Section 11. Toxicological information

- Skin contact** : Adverse symptoms may include the following:  
 pain or irritation  
 redness  
 blistering may occur  
 reduced foetal weight  
 increase in foetal deaths  
 skeletal malformations
- Ingestion** : Adverse symptoms may include the following:  
 stomach pains  
 reduced foetal weight  
 increase in foetal deaths  
 skeletal malformations

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

#### Short term exposure

- Potential immediate effects** : Not available.
- Potential delayed effects** : Not available.

#### Long term exposure

- Potential immediate effects** : Not available.
- Potential delayed effects** : Not available.

### Potential chronic health effects

- Conclusion/Summary[Product]** : Not available.

- General** : May cause damage to organs through prolonged or repeated exposure. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
- Carcinogenicity** : No known significant effects or critical hazards.
- Mutagenicity** : No known significant effects or critical hazards.
- Reproductive toxicity** : Suspected of damaging fertility or the unborn child.

### Numerical measures of toxicity

#### Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
PJM INK K – Art.-Nr. 3062650000	2318.8	N/A	N/A	N/A	N/A
acetone	5800	N/A	N/A	N/A	76
butanone	2737	6480	N/A	N/A	34.5
2-Propenoic acid, reaction products with pentaerythritol	500	N/A	N/A	N/A	N/A
4-(1-oxo-2-propenyl)-morpholine	588	N/A	N/A	N/A	N/A
oxybis(methyl-2,1-ethanediyl) diacrylate	2810	N/A	N/A	N/A	N/A

## Section 12. Ecological information

### Toxicity

Product/ingredient name	Result	
acetone	<b>Acute - LC50 - Fresh water</b>	<u>Effect</u> : Mortality
	Daphnia - Water flea - <i>Daphnia magna</i>	
	10 mg/l [48 hours]	
	<b>Chronic - NOEC - Marine water</b>	<u>Effect</u> : Reproduction
	Algae - Green algae - <i>Ulva pertusa</i>	
	4.95 mg/l [96 hours]	
	<b>Acute - EC50 - Marine water</b>	<u>Effect</u> : Reproduction
	Algae - Green algae - <i>Ulva pertusa</i>	
	20.565 mg/l [96 hours]	
	<b>Chronic - NOEC - Fresh water</b>	<u>Effect</u> : Population
butanone	Crustaceans - Daphnia - <i>Daphniidae</i>	
	0.016 ml/l [21 days]	
	<b>Chronic - NOEC - Marine water</b>	<u>Effect</u> : Growth
	Fish - Threespine stickleback - <i>Gasterosteus aculeatus</i> - Larvae	
	<u>Age</u> : 7 days	
	5 µg/l [42 days]	
	<b>Acute - LC50 - Fresh water</b>	<u>Effect</u> : Mortality
	Fish - Guppy - <i>Poecilia reticulata</i>	
	<u>Age</u> : 4 to 12 months; <u>Size</u> : 2 to 10 cm;	
	<u>Weight</u> : 0.5 to 14 g	
2-Propenoic acid, reaction products with pentaerythritol	5600 ppm [96 hours]	
	<b>Acute - EC50 - Fresh water</b>	<u>Effect</u> : Intoxication
	Daphnia - Water flea - <i>Daphnia magna</i> - Larvae	
	<u>Age</u> : <24 hours	
	5091 mg/l [48 hours]	
	<b>Acute - LC50 - Fresh water</b>	<u>Effect</u> : Mortality
	Fish - Fathead minnow - <i>Pimephales promelas</i>	
	<u>Age</u> : 31 days; <u>Size</u> : 22 mm; <u>Weight</u> : 0.167 g	
	3220 mg/l [96 hours]	
	<b>Acute - EC50 - Marine water</b>	<u>Effect</u> : Population
4-(1-oxo-2-propenyl)-morpholine	Algae - Diatom - <i>Skeletonema costatum</i>	
	>500 mg/l [96 hours]	
	<b>Acute - LC50 - Fresh water</b>	OECD [Fish, Acute Toxicity Test]
	Fish - <i>Cyprinus carpio</i>	
	3.2 mg/l [96 hours]	
	<b>Acute - EC50 - Fresh water</b>	OECD [Daphnia sp. Acute Immobilization Test and Reproduction Test]
	Daphnia - Daphnia - <i>Daphnia magna</i>	
	13 mg/l [48 hours]	
	<b>Acute - LC50</b>	OECD 203 [Fish, Acute Toxicity Test]
	Fish	
	>220 mg/l [96 hours]	
	<b>Acute - EC50</b>	OECD 202 [Daphnia sp. Acute Immobilization Test and Reproduction Test]
	Daphnia	
	120 mg/l [48 hours]	
	<b>Acute - EC50</b>	OECD 201 [Alga, Growth Inhibition Test]
	Algae	
	>120 mg/l [72 hours]	
	<b>Acute - NOEC</b>	OECD 203 [Fish, Acute Toxicity Test]
	Fish	
	102 mg/l [96 hours]	

## Section 12. Ecological information

oxybis(methyl-2,1-ethanediyl) diacrylate	<b>Acute - NOEC</b> Daphnia 46 mg/l [48 hours]	OECD 202 [Daphnia sp. Acute Immobilization Test and Reproduction Test]
	<b>Acute - NOEC</b> Algae ≥120 mg/l [72 hours]	OECD 201 [Alga, Growth Inhibition Test]
	<b>LC50</b> Fish 2.2 to 4.64 mg/l [96 hours]	
	<b>EC50</b> Daphnia 22.3 mg/l [48 hours]	
2-isopropyl-9H-thioxanthen-9-one	<b>EC50</b> Algae 16.7 mg/l [72 hours]	
	<b>EC50</b> Daphnia >0.028 mg/l [48 hours]	
	<b>NOEC</b> Daphnia >0.028 mg/l [48 hours]	
	<b>EC50</b> Algae >0.047 mg/l [72 hours]	
Glycerol, propoxylated, esters with acrylic acid	<b>NOEC</b> Algae 0.005 mg/l [72 hours]	
	<b>Acute - LC50</b> Fish 5.74 mg/l [96 hours]	OECD [Fish, Acute Toxicity Test]
	<b>Acute - EC50</b> Daphnia 91.4 mg/l [48 hours]	OECD [Daphnia sp. Acute Immobilization Test and Reproduction Test]
	<b>Acute - EC50</b> Algae 12.2 mg/l [72 hours]	OECD [Alga, Growth Inhibition Test]

**Conclusion/Summary[Product]** : Not available.

### Persistence and degradability

<b>Product/ingredient name</b>	<b>Result</b>	
acetone	<b>Aerobic</b> 91% [28 days] - Readily	OECD [ Ready Biodegradability - CO2 Evolution Test]
butanone	98% [28 days] - Readily	OECD [ Ready Biodegradability - Closed Bottle Test]
2-Propenoic acid, reaction products with pentaerythritol	<b>Aerobic - 21 mg/l</b> 14% [28 days] - Not readily	OECD [ Ready Biodegradability - CO2 Evolution Test]
4-(1-oxo-2-propenyl)-morpholine	<b>Aerobic</b> 1.4% [28 days] - Not readily	OECD 310 [Ready Biodegradability - CO2 in Sealed Vessels (Headspace Test)]
oxybis(methyl-2,1-ethanediyl) diacrylate	90 to 100% [28 days]	OECD [ Ready Biodegradability - DOC Die-Away Test]
2-isopropyl-9H-thioxanthen-9-one	5% [28 days]	
phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	1% [29 days] - Not readily	OECD [ Ready Biodegradability - CO2 Evolution Test]
Glycerol, propoxylated, esters with acrylic acid	72 to 85% [28 days] - Readily	OECD [ Ready Biodegradability - CO2 Evolution Test]

## Section 12. Ecological information

**Conclusion/Summary[Product]** : Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
acetone	-	-	Readily
butanone	-	-	Readily
2-Propenoic acid, reaction products with pentaerythritol	-	-	Not readily
4-(1-oxo-2-propenyl)-morpholine	-	-	Not readily
oxybis(methyl-2,1-ethanediyl) diacrylate	-	-	Readily
2-isopropyl-9H-thioxanthen-9-one	-	-	Not readily
Glycerol, propoxylated, esters with acrylic acid	-	-	Readily

### Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
acetone	-0.23	-	Low
butanone	0.3	-	Low
2-Propenoic acid, reaction products with pentaerythritol	1.45	-	Low
4-(1-oxo-2-propenyl)-morpholine	-0.46	-	Low
oxybis(methyl-2,1-ethanediyl) diacrylate	0.01 to 0.39	-	Low
2-isopropyl-9H-thioxanthen-9-one	5.59	-	High
phenyl bis (2,4,6-trimethylbenzoyl)-phosphine oxide	5.77	<5	Low
Glycerol, propoxylated, esters with acrylic acid	2.52	-	Low

### Mobility in soil

**Soil/water partition coefficient** : Not available.

### Other adverse effects

No known significant effects or critical hazards.

## Section 13. Disposal considerations





**Disposal methods** : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapour from product residues may create



## Section 13. Disposal considerations

a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

## Section 14. Transport information

	UN	IMDG	IATA
UN number	UN1210	UN1210	UN1210
UN proper shipping name	PRINTING INK	PRINTING INK	Printing ink
Transport hazard class(es)	3 	3  	3 
Packing group	II	II	II
Environmental hazards	Yes. The environmentally hazardous substance mark is not required.	Yes.	Yes. The environmentally hazardous substance mark is not required.

### Additional information

- UN** : **Special provisions** 163, 367
- IMDG** : The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.  
**Emergency schedules** F-E, S-D  
**Special provisions** 163, 367
- IATA** : The environmentally hazardous substance mark may appear if required by other transportation regulations.  
**Quantity limitation** Passenger and Cargo Aircraft: 5 L. Packaging instructions: 353. Cargo Aircraft Only: 60 L. Packaging instructions: 364. Limited Quantities - Passenger Aircraft: 1 L. Packaging instructions: Y341.  
**Special provisions** A3, A72, A192

**Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**Transport in bulk according to IMO instruments** : Not available.

## Section 15. Regulatory information

### International regulations

#### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

#### Montreal Protocol

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

Not listed.

#### Rotterdam Convention on Prior Informed Consent (PIC)

## Section 15. Regulatory information

Not listed.

### [UNECE Aarhus Protocol on POPs and Heavy Metals](#)

Not listed.

## Section 16. Other information

### History

**Date of issue/Date of revision** : 11/24/2025

**Date of previous issue** : No previous validation

**Version** : 1

**Key to abbreviations** :

- ATE = Acute Toxicity Estimate
- BCF = Bioconcentration Factor
- GHS = Globally Harmonized System of Classification and Labelling of Chemicals
- IATA = International Air Transport Association
- IBC = Intermediate Bulk Container
- IMDG = International Maritime Dangerous Goods
- IMO = International Maritime Organization
- LogPow = logarithm of the octanol/water partition coefficient
- MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
- N/A = Not available
- SGG = Segregation Group
- UN = United Nations

### Procedure used to derive the classification

Classification	Justification
FLAMMABLE LIQUIDS - Category 2	On basis of test data
SKIN CORROSION/IRRITATION - Category 2	Calculation method
SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1	Calculation method
SKIN SENSITISATION - Category 1	Calculation method
REPRODUCTIVE TOXICITY - Category 2	Calculation method
SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Narcotic effects) - Category 3	Calculation method
SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2	Calculation method
LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2	Calculation method

**References** : GHS - Globally Harmonised System of Classification and Labelling of Chemicals  
International transport regulations

Indicates information that has changed from previously issued version.

### Notice to reader

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