



# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard

# EPSON

Version  
1.0

Revision Date: -

Date of last issue: -

Date of first issue: 21/11/2025

Hazard pictograms

:



Signal Word

: Danger

Hazard Statements

: H302 Harmful if swallowed.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.  
H335 May cause respiratory irritation.  
H373 May cause damage to organs through prolonged or repeated exposure.  
H400 Very toxic to aquatic life.  
H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statements

: **Prevention:**  
P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
P264 Wash hands thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P271 Use only outdoors or in a well-ventilated area.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
**Response:**  
P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.  
P302+P352 IF ON SKIN: Wash with plenty of soap and water.  
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
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.  
P312 Call a POISON CENTER or doctor/physician if you feel unwell.  
P314 Get medical advice/attention if you feel unwell.  
P330 Rinse mouth.  
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
P362+P364 Take off contaminated clothing and wash it before reuse.  
P391 Collect spillage.  
**Storage:**  
P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
P405 Store locked up.

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## Disposal:

P501 Dispose of contents/container in accordance with applicable regulations.

## Additional Labeling

The following percentage of the mixture consists of ingredient(s) with unknown acute toxicity: 3 %

## Other hazards

None known.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture  
Chemical nature : Inkjet inks (UV-curable type)

### Components

Chemical name	CAS-No.	Classification	Concentration (% w/w)
Morpholine, 4-(1-oxo-2-propenyl)-	5117-12-4	Acute Tox. 4 (H302) Eye Dam. 1 (H318) Skin Sens. 1 (H317) STOT RE 2 (H373)	>= 30 - < 50
2-Propenoic acid, phenylmethyl ester	2495-35-4	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Skin Sens. 1B (H317) STOT SE 3 (H335) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	>= 25 - < 30
2-Propenoic acid, 1,7,7-trimethylbicyclo[2.2.1]hept-2-yl ester, exo-	5888-33-5	Skin Sens. 1A (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	>= 10 - < 20
2-Propenoic acid, 2-(2-ethoxyethoxy)ethyl ester	7328-17-8	Acute Tox. 4 (H302) Acute Tox. 3 (H311) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Skin Sens. 1A (H317) Aquatic Chronic 2 (H411)	>= 2.5 - < 10
Phosphine oxide, phenylbis(2,4,6-trimethylbenzoyl)-	162881-26-7	Skin Sens. 1A (H317) Aquatic Chronic 4 (H413)	>= 2.5 - < 10
Trimethylolpropane polyoxyethylene triacrylate	28961-43-5	Eye Irrit. 2 (H319) Skin Sens. 1B (H317) Aquatic Chronic 3 (H412)	>= 2.5 - < 10
Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate	84434-11-7	Skin Sens. 1B (H317) Aquatic Chronic 2 (H411)	>= 2.5 - < 10
1,6-Hexanediol diacrylate	13048-33-4	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319)	>= 0.1 - < 1

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		Skin Sens. 1 (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	
Copolymer solution containing pigment affinity group	Not Assigned	Aquatic Acute 1 (H400)	>= 0.25 - < 1
Poly[oxy(methyl-1,2-ethanediyl)], .alpha.,.alpha.',.alpha."-1,2,3-propanetriyltris[.omega.-[(1-oxo-2-propenyl)oxy]-	52408-84-1	Eye Irrit. 2A (H319) Skin Sens. 1 (H317)	>= 0.1 - < 1
N,N-dimethylacrylamide	2680-03-7	Flam. Liq. 4 (H227) Acute Tox. 3 (H301) Acute Tox. 3 (H311) Eye Dam. 1 (H318) Skin Sens. 1B (H317) STOT RE 2 (H373)	>= 0 - < 10

Actual concentration is withheld as a trade secret

## SECTION 4. FIRST AID MEASURES

General advice	:	Move out of dangerous area. Show this material safety data sheet to the doctor in attendance. Do not leave the victim unattended.
If inhaled	:	If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.
In case of skin contact	:	If skin irritation persists, call a physician. If on skin, rinse well with water. If on clothes, remove clothes.
In case of eye contact	:	Immediately flush eye(s) with plenty of water. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.
If swallowed	:	Keep respiratory tract clear. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.
Most important symptoms and effects, both acute and delayed	:	Harmful if swallowed. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. May cause respiratory irritation. May cause damage to organs through prolonged or repeated exposure.
Notes to physician	:	Treat symptomatically.

## SECTION 5. FIRE-FIGHTING MEASURES

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



Version  
1.0

Revision Date: -

Date of last issue: -

Date of first issue: 21/11/2025

---

Unsuitable extinguishing media	:	High volume water jet
Specific hazards during fire fighting	:	Do not allow run-off from fire fighting to enter drains or water courses.
Hazardous combustion products	:	No hazardous combustion products are known
Further information	:	Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Special protective equipment for fire-fighters	:	Wear self-contained breathing apparatus for firefighting if necessary.

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## SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Use personal protective equipment.
Environmental precautions	:	Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.
Methods and materials for containment and cleaning up	:	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.

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## SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion	:	Normal measures for preventive fire protection.
Advice on safe handling	:	Avoid formation of aerosol. Do not breathe vapors/dust. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Provide sufficient air exchange and/or exhaust in work rooms. Dispose of rinse water in accordance with local and national regulations. Persons susceptible to skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.
Conditions for safe storage	:	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions.

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard

Version 1.0      Revision Date: -

Date of last issue: -  
Date of first issue: 21/11/2025

Electrical installations / working materials must comply with the technological safety standards.  
Further information on storage stability : No decomposition if stored and applied as directed.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Phthalocyanine blue	147-14-8	TWA	1 mg/m <sup>3</sup> (Copper)	NIOSH REL
1,6-Hexanediol diacrylate	13048-33-4	TWA	1 mg/m <sup>3</sup>	US WEEL

### Personal protective equipment

Respiratory protection : Wear suitable protective equipment.  
Hand protection

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye protection : Eye wash bottle with pure water  
Tightly fitting safety goggles  
Wear face-shield and protective suit for abnormal processing problems.

Skin and body protection : Impervious clothing  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures : When using do not eat or drink.  
When using do not smoke.  
Wash hands before breaks and at the end of workday.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Color : colored

Odor : characteristic

pH : Not applicable

Melting point/freezing point : No data available

Boiling point, initial boiling point and boiling range : No data available

Flash point :  $\geq 201$  °F /  $\geq 94$  °C  
Method: Seta closed cup

Flammability (liquids) : Sustains combustion

Upper explosion limit / Upper flammability limit : No data available

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard

**EPSON**

Version      Revision Date: -  
1.0

Date of last issue: -  
Date of first issue: 21/11/2025

---

Lower explosion limit / Lower flammability limit	:	No data available
Vapor pressure	:	No data available
Relative vapor density	:	No data available
Density	:	1.00 - 1.10 g/cm <sup>3</sup>
Solubility(ies)		
Water solubility	:	insoluble
Solubility in other solvents	:	Solvent: Solubility: Organic solvent
Partition coefficient: n-octanol/water	:	No data available
Autoignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity		
Viscosity, kinematic	:	<= 14 mm <sup>2</sup> /s (104 °F / 40 °C)
Particle characteristics		
Particle size	:	Not applicable

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## SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	No decomposition if stored and applied as directed.
Chemical stability	:	No decomposition if stored and applied as directed.
Possibility of hazardous reactions	:	No decomposition if stored and applied as directed.
Conditions to avoid	:	No data available
Incompatible materials	:	Not applicable
Hazardous decomposition products	:	No hazardous decomposition products are known.

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## SECTION 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

Harmful if swallowed.

#### **Product:**

Acute oral toxicity	:	Acute toxicity estimate: 1,401 mg/kg Method: Calculation method
Acute dermal toxicity	:	Acute toxicity estimate: > 5,000 mg/kg Method: Calculation method

### Skin corrosion/irritation

Causes skin irritation.



# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



Version      Revision Date: -  
1.0

Date of last issue: -  
Date of first issue: 21/11/2025

---

## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

No data available

### Persistence and degradability

No data available

### Bioaccumulative potential

No data available

### Mobility in soil

No data available

### Other adverse effects

#### Product:

Ozone-Depletion Potential      :    Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances  
Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

Additional ecological information      :    An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Harmful to aquatic life.  
Toxic to aquatic life with long lasting effects.

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## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal methods

Waste from residues      :    The product should not be allowed to enter drains, water courses or the soil.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Send to a licensed waste management company.

Contaminated packaging      :    Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.

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## SECTION 14. TRANSPORT INFORMATION

### International Regulations

#### UNRTDG

UN number      :    UN 3082  
Proper shipping name      :    ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(, )  
Class      :    9  
Packing group      :    III  
Labels      :    9  
Environmentally hazardous      :    yes

# SAFETY DATA SHEET

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Version      Revision Date: -  
1.0

Date of last issue: -  
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## IATA-DGR

UN/ID No. : UN 3082  
Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.  
(, )  
Class : 9  
Packing group : III  
Labels : Miscellaneous Dangerous Goods  
Packing instruction (cargo aircraft) : 964  
Packing instruction (passenger aircraft) : 964  
Environmentally hazardous : yes

## IMDG-Code

UN number : UN 3082  
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,  
N.O.S.  
(, )  
Class : 9  
Packing group : III  
Labels : 9  
EmS Code : F-A, S-F  
Marine pollutant : yes

## Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

## Domestic regulation

### 49 CFR

UN/ID/NA number : UN 3082  
Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.  
(, )  
Class : 9  
Packing group : III  
Labels : CLASS 9  
ERG Code : 171  
Marine pollutant : yes(, )  
Remarks : Shipment by ground under DOT is non-regulated; however it may be shipped per the applicable hazard classification to facilitate multi-modal transport involving ICAO (IATA) or IMO.

## Special precautions for user

Remarks : 49CFR: no dangerous good in non-bulk packaging

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

# SAFETY DATA SHEET

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Version 1.0      Revision Date: -

Date of last issue: -  
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## SECTION 15. REGULATORY INFORMATION

### CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

### SARA 304 Extremely Hazardous Substances Reportable Quantity

Listed substances in the product are at low enough levels to not be expected to exceed the RQ

### SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

**SARA 311/312 Hazards** : Acute toxicity (any route of exposure)  
Respiratory or skin sensitization  
Specific target organ toxicity (single or repeated exposure)  
Skin corrosion or irritation  
Serious eye damage or eye irritation

**SARA 313** : The following components are subject to reporting levels established by SARA Title III, Section 313:

2-Propenoic acid, 7328-17-8	>= 5 - < 10 %
2-(2-ethoxyethoxy)ethyl ester	

### Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 112 (40 CFR 61):

2-Propenoic acid, 2-(2-ethoxyethoxy)ethyl ester	7328-17-8	>= 5 - < 10 %
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This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM Intermediate or Final VOC's (40 CFR 60.489).

### Clean Water Act

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

Phenol	108-95-2	>= 0 - < 0.1 %
Cyclohexane	110-82-7	>= 0 - < 0.1 %
Toluene	108-88-3	>= 0 - < 0.1 %

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

Phenol	108-95-2	>= 0 - < 0.1 %
Cyclohexane	110-82-7	>= 0 - < 0.1 %
Toluene	108-88-3	>= 0 - < 0.1 %

This product contains the following toxic pollutants listed under the U.S. Clean Water Act Section 307

Phthalocyanine blue	147-14-8	>= 1 - < 5 %
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This product does not contain any priority pollutants related to the U.S. Clean Water Act

### US State Regulations

#### Massachusetts Right To Know

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard

Version  
1.0

Revision Date: -

Date of last issue: -

Date of first issue: 21/11/2025

Phenol 108-95-2

## Pennsylvania Right To Know

2-Propenoic acid, 2-(2-ethoxyethoxy)ethyl ester 7328-17-8  
Phthalocyanine blue 147-14-8  
Phenol 108-95-2

## Maine Chemicals of High Concern

Product does not contain any listed chemicals

## Vermont Chemicals of High Concern

Product does not contain any listed chemicals

## Washington Chemicals of High Concern

Product does not contain any listed chemicals

## California Prop. 65

WARNING: This product can expose you to chemicals including Toluene, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

## California List of Hazardous Substances

Phthalocyanine blue 147-14-8

## TSCA list

The following substance(s) is/are subject to a Significant New Use Rule:

Morpholine, 4-(1-oxo-2-propenyl)- 5117-12-4 See 40 CFR § 721.5185; Final Rule  
2,4-Diethyl-9H-thioxanthen-9-one 82799-44-8 See 40 CFR § 721.9664; Final Rule

The following substance(s) is/are subject to TSCA 12(b) export notification requirements:

Morpholine, 4-(1-oxo-2-propenyl)- 5117-12-4  
2,4-Diethyl-9H-thioxanthen-9-one 82799-44-8

## SECTION 16. OTHER INFORMATION

### Full text of other abbreviations

NIOSH REL : USA. NIOSH Recommended Exposure Limits  
US WEEL : USA. Workplace Environmental Exposure Levels (WEEL)  
NIOSH REL / TWA : Time-weighted average concentration for up to a 10-hour  
workday during a 40-hour workweek  
US WEEL / TWA : 8-hr TWA

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC -

