



Safety Data Sheet

1. Product Identification

Trade name : **PHOTOCURE SR**
 SDS Number; A-128E-E3S
 Manufacturer's name : Murakami Screen (Singapore) Pte. Ltd.
 Address ; 35 Loyang Drive, Singapore
 Phone number; (+65)6546-0355
 FAX number; (+65)6546-0365

Recommended use of chemical and restrictions on use :

Material for screen printing. Not intended for other applications

2. Hazard identification

GHS classification :

Physical hazards ;

Explosives	Not applicable
Flammable gases	Not applicable
Flammable aerosols	Not applicable
Oxidizing gases	Not applicable
Gases under pressure	Not applicable
Flammable liquids	Not classified
Flammable solids	Not applicable
Self-reactive substances and mixtures	Classification not possible
Pyrophoric liquids	Not classified
Pyrophoric solids	Not applicable
Self-heating substances and mixtures	Classification not possible
Substances and mixtures, which in contact with water, emit flammable gases	Not classified
Oxidizing liquids	Not applicable
Oxidizing solids	Not applicable
Organic peroxides	Not applicable
Corrosive metals	Classification not possible

Health hazards ;

Acute toxicity (Oral)	Classification not possible
Acute toxicity (Dermal)	Classification not possible
Acute toxicity (Inhalation : Gases)	Not applicable
Acute toxicity (Inhalation : Vapours)	Classification not possible
Acute toxicity (Inhalation : Dusts and Mists)	Classification not possible
Skin corrosion/irritation	Category 3
Eye damage/eye irritation	Classification not possible
Respiratory sensitization	Classification not possible
Skin sensitization	Category 1
Germ cell mutagenicity	Classification not possible
Carcinogenicity	Classification not possible
Reproductive toxicity	Classification not possible
Specific target organ toxicity (Single exposure)	Classification not possible
Specific target organ toxicity (Repeated exposure)	Classification not possible
Aspiration hazard	Classification not possible



Safety Data Sheet

Environmental hazards;

Hazardous to the aquatic environment (Acute toxicity)

Category 3

Hazardous to the aquatic environment (Chronic toxicity)

Category 3

Hazardous to the ozone layer

Classification not possible

Pictogram and Symbol:



Exclamation mark

Signal Word: Warning

Hazard statement: H316 Causes mild skin irritation

H317 May cause an allergic skin reaction

H402 Harmful to aquatic life

H412 Harmful to aquatic life with long lasting effects

Precautionary statements:

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 Wash hands thoroughly after handling.

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; P302+P352 IF ON SKIN: Wash with plenty of water.

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

P362+P364 Take off contaminated clothing and wash it before reuse.

Disposal; P501 Dispose of contents / container in accordance with local / regional / national / international regulations.



Safety Data Sheet

3. Composition/information on ingredients

Substance or Mixture : Mixture

Ingredients and concentration ranges :

Chemical name		Water	Water based emulsion	Acrylate monomer	PVA-SBQ
wt%		60≤<70wt%	10≤<20wt%	5≤<15wt%	5≤<15wt%
CAS No.		7732-18-5	Listed	Listed	Listed
Global Inventories	TSCA (USA)	Listed	Listed	Listed	Listed
	ENCS (Japan)	-	Listed	Listed	Listed
	EC No. (EU)	Listed	Listed	Listed	Listed
	IECSC (China)	Listed	Listed	Listed	Listed

4. First aid measures

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Get medical advice / attention if you feel unwell.
Get medical advice / attention if experiencing respiratory symptoms.

Skin Contact : Remove / Take off all contaminated clothing immediately.
Wash with plenty of soap and water.
Get immediate medical advice / attention, if skin irritation or rash occurs.

Eye Contact : Remove contact lenses, if present and easy to do. Continue rinsing.
Rinse with clean water for at least 15 minutes and then seek medical attention if necessary.
When rinsing, open your eyelids with fingers to insure saturation of water.
Seek medical attention if the problem persists.

Ingestion : Rinse mouth. Do not induce vomiting.
Get immediate medical advice / attention.
If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.

Protection for personnel administering first aid :

Wear appropriate protective equipment if necessary.

5. Firefighting measures

Extinguishing media :

Suitable extinguishing media ; Fire-extinguishing powder, fire-fighting foam, carbon dioxide, sand, water spray

Unsuitable extinguishing media ; Straight stream water

Specific hazards arising from the product :

When exposed to high temperatures, this product may generate dangerous decompositions such as nitrogen oxides carbon monoxide, carbon dioxide, and sulfur oxides.

Specific extinguishing measures : Cut off the combustion source to the origin of fire and extinguish by using the appropriate fire extinguishing media.
Take appropriate measures to disallow substances that may affect the environment from being dispersed by the drainage.
Remove all containers possible to a safe place promptly.
If not possible to remove, cool down the area. Work from windward and use respiratory equipment if necessary.

Special protective equipment and precautions :

Wear appropriate protective wear (heat-proof) including air respirators.



Safety Data Sheet

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures :

Avoid breathing mist / vapors.

Remove ignition sources in the area and work from windward.

Clean up immediately when it spills on the floor or any surface. (The floor surface becomes slippery).

Prohibit entry other than related personnel.

Do not touch and/or walk in the spills.

The worker wears an appropriate protective equipment, and avoids eyes, the skin contacts, and inhalations. (refer to Item 8)

Prepare fire extinguishing equipment in case of ignition.

Environmental precautions :

Avoid releasing to the environment.

Collect spillage.

If the pollution of water pipes or waterways occur, contact relevant organizations.

Clean the area and avoid entry into plumbing system.

Methods and materials for recovery and neutralization:

Collect into open container by absorbing with cloths, rags, sand or etc. and then rinse with plenty of water.

Contain the flow path with blankets or sand bags and collect into an appropriate container for large spills.

Prevent the inflow into drains, sewer, basement, or enclosed areas.

Wear appropriate protective equipment throughout the process.

7. Handling and storage

Handling :

Seal container after use.

Avoid leakage, overflow, dispersal and generating steam without any good reason.

Avoid improper handling like tipping over, dropping, strong impact to or dragging the container.

Wash hands thoroughly and rinse mouth after handling.

Do not eat, drink or smoke when using this product.

Do not carry contaminated gloves and protective equipment into rest / break areas.

Wear proper protective equipment to avoid inhalation and contact with eyes and skin.

Storage :

Keep container tightly closed.

Store in a dark light-safe area.

Do not freeze.

8. Exposure controls/personal protection

Exposure limit values :

Not specified.

Engineering measures:

It is desirable to install a local exhaust system as necessary.

Personal protective equipment :

Wear following protective equipment as necessary and accordingly.

Inspect equipment on a regular basis by using a protective equipment maintenance chart.

Respiratory protection;

Supplied air respirator, air / oxygen breathing apparatus, organic vapor gas mask

Eye protection;

Wearing protective glasses is preferred.

Hand protection;

Wearing gloves that organic solvents or chemicals do not penetrate is preferred.

Skin protection;

Wearing protective clothing (long sleeve uniform) that organic solvent or the chemical do not infiltrate easily is preferred.



Safety Data Sheet

9. Physical and chemical properties

Appearance (physical state, color, etc.):

Physical state;	Aqueous solution
Color;	Violet
Odour;	Mild
pH;	4.0 - 6.0
Melting point/freezing point;	Approx 0°C
Initial boiling point and boilinr range;	Approx 100°C
Relative density;	Approx 1mg/cm3
Solubility;	dispersible, soluble

10. Stability and reactivity

Reactivity:	Decomposes upon heating and produces carbon dioxide and carbon monoxide.
Chemical stability:	Stable under normal conditions.
Conditions to avoid:	Sunlight, heat, open flame, high temperature, sparks, static electricity, other sources of ignition.
Incompatible materials:	Incompatible with acid, alkali, amines and is prohibited to mix with.
Hazardous decomposition products:	Carbon monoxide (CO), carbon dioxide (CO2) gas might be generated by combustion. Vapor from organic solvents.

11. Toxicological information

Acute toxicity(Oral):

Information on product;	No information available, Classification not possible based on the calculation.
Information on ingredients;	
Poly vinyl alcohol	Not classified. Oral, rat LD ₅₀ >2,000mg/kg

Acute toxicity (Transdermal):

Information on product;	No information available, Classification not possible based on the calculation.
Information on ingredients;	
Poly vinyl alcohol	Not classified. Dermal, rat LD ₅₀ >2,000mg/kg

Acute toxicity(Inhalation):

Information on product;	No information available, Classification not possible based on the calculation.
Information on ingredients;	No information available.

Skin corrosion/irritation :

Information on product ;	No information available, Category 3 based on the calculation.
Information on ingredients ;	
Poly vinyl alcohol	Corrosivity/stimulation to the skin is hardly recognized.
Acrylate monomer	Ingredient of Category2 is included less than 30% in Acrylate monomer.



Safety Data Sheet

Serious eye damage/irritation :

Information on product ; No information available, Classification not possible based on the calculation.

Information on ingredients ;

Poly vinyl alcohol Irritation to the skin is hardly recognized.

Acrylate monomer Ingredient of Category2 is included less than 60% in Acrylate monomer.

Respiratory sensitization :

Information on product ; No information available, Classification not possible based on the calculation.

Information on ingredients ; No information available.

Skin sensitization :

Information on product ; No information available, Category 1 based on the calculation.

Information on ingredients ;

Acrylate monomer Ingredient of Category1 is included less than 60% in Acrylate monomer.

Germ cell mutagenicity :

Information on product ; No information available, Classification not possible based on the calculation.

Information on ingredients ;

Poly vinyl alcohol Negative mutagenicity test using bacteria.

Carcinogenicity :

Information on product ; No information available, Classification not possible based on the calculation.

Information on ingredients ;

Poly vinyl alcohol Rat tests in the past show no carcinogenicity.

Reproductive toxicity :

Information on product ; No information available, Classification not possible based on the calculation.

Information on ingredients ; No information available.

STOT-single exposure :

Information on product ; No information available, Classification not possible based on the calculation.

Information on ingredients ; No information available.

STOT-repeated exposure :

Information on product ; No information available, Classification not possible based on the calculation.

Information on ingredients ; No information available.

Aspiration hazard :

Information on product ; No information available, Classification not possible based on the calculation.

Information on ingredients ; No information available.

12. Ecological information

Acute aquatic toxicity :

Information on product ; No information available, Category 3 based on the calculation.

Information on ingredients ;

Acrylate monomer Ingredient of Category2 is included less than 40% in Acrylate monomer.

Chronic aquatic toxicity :

Information on product ; No information available, Category 3 based on the calculation.

Information on ingredients ;

PVA-SBQ Category 2 .

Acrylate monomer Ingredient of Category2 is included less than 40% in Acrylate monomer.

Persistence and degradability :

Information on product ; No information available.

Information on ingredients ; No information available.



Safety Data Sheet

Bioaccumulative potential:

Information on product; No information available.

Information on ingredients; No information available.

Mobility in soil:

Information on product; No information available.

Information on ingredients; No information available.

Other adverse effects:

Information on product; The product is not allowed to run into drain or waterways.

Information on ingredients; No information available.

13. Disposal considerations

Dispose of contents / container in accordance with local / regional / national / international regulations.

14. Transport information

Avoid direct sunlight during transportation. Confirm the container has no damage, corrosion, leakage before transportation. Take measures to prevent the load from tipping, falling and damages.

Verify the container has no leaks when transporting and take preventative measure when loading so that the cargo does not tip, fall or get damaged during transit.

UN classification:

UN number; Not applicable.

UN proper shipping name; Not applicable.

Transport hazard class(es); Not applicable.

Packing group; Not applicable.

Environmental hazards (Marine pollutant): Not applicable.

Land transport ADR / RID: Not applicable.

Maritime transport IMDG: Not applicable.

Air transport ICAO and IATA: Not applicable.

15. Regulatory information

The product must be used, stored, and transported in accordance with local / regional / national / international

16. Other information

Handling of described contents:

The information contained herein is given in good faith and accurate to the best of our knowledge. No warranty is given, expressed, or implied.

The product must not be used for any purposes other than those specified under heading 1 without first obtaining written handling instructions.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information given on this safety data sheet must be regarded as a description of the safety requirements relating to our product and not a guarantee of its properties.

Moreover, it is likely to be revised based on a revision of the law and a new finding.

This product is developed for general industry. Please use it after confirming safety in your company for special applications.

Reference citations:

Regulation (EC) No. 1272/2008

Raw material company submitting SDS

The Chemical Daily Co.,Ltd. "2011 version 15911 chemical products" (2011)