



Safety Data Sheet

1. Product Identification

Trade name: DIAZO SENSITIZER
 MSDS Number: A-000J-E2U
 Manufacturer's name: Murakami Screen U.S.A., Inc,
 Address: 745 Monterey Pass Road, Monterey Park, California, U.S.A.
 Phone number: (323) 980-0662
 FAX number: (323) 980-0659
 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	Classification not possible
Flammable gases	Not applicable
Flammable aerosols	Not applicable
Oxidizing gases	Not applicable
Gases under pressure	Not applicable
Flammable liquids	Not applicable
Flammable solids	Classification not possible
Self-reactive substances and mixtures	Not classified
Pyrophoric liquids	Not applicable
Pyrophoric solids	Classification not possible
Self-heating substances and mixtures	Classification not possible
Substances and mixtures, which in contact with water, emit flammable gases	Classification not possible
Oxidizing liquids	Not applicable
Oxidizing solids	Classification not possible
Organic peroxides	Classification not possible
Corrosive metals	Classification not possible

Health hazards;

Acute toxicity (Oral)	Classification not possible
Acute toxicity (Dermal)	Classification not possible
Acute toxicity (Inhalation: Gases)	Classification not possible
Acute toxicity (Inhalation: Vapours)	Classification not possible
Acute toxicity (Inhalation: Dusts and Mists)	Classification not possible
Skin corrosion/irritation	Classification not possible
Eye damage/eye irritation	Classification not possible
Respiratory sensitization	Classification not possible
Skin sensitization	Classification not possible
Germ cell mutagenicity	Classification not possible
Carcinogenicity	Classification not possible
Reproductive toxicity	Category 2
Specific target organ toxicity (Single exposure)	Category 2 (Kidney, Central nervous system, Systemic toxicity)
Specific target organ toxicity (Repeated exposure)	Classification not possible
Aspiration hazard	Classification not possible

Environmental hazards;

Hazardous to the aquatic environment (Acute toxicity)	Classification not possible
Hazardous to the aquatic environment (Chronic toxicity)	Classification not possible
Hazardous to the ozone layer	Classification not possible



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Pictogram and Symbol:



Health Hazard

Signal Word: Warning

Hazard statement: H361 Suspected of damaging fertility or the unborn child
H371 May cause damage to organs

Precautionary statements:

- Prevention;** P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
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.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
- Response;** P308+P313 IF exposed or concerned: Get medical advice/attention.
- Storage;** P405 Store locked up.
- Disposal;** P501 Dispose of contents / container in accordance with local / regional / national / international regulations.

3. Composition/information on ingredients

Substance or Mixture: Mixture

Ingredients and concentration ranges:

Chemical name	wt%	CAS RN	ENCS	TSCA	EINECS
Condensation product of p-diazodiphenyl-amin sulfate and formaldehyde	>90	Listed	Listed	Listed	Listed
2-Propanol	<10	67-63-0	2-207	Listed	Listed

4. First aid measures

- Inhalation:** Remove to fresh air, wash out nasal aperture and mouth with plenty of water. If breathing is difficult, give artificial respiration. If not breathing, give oxygen. Consult with a physician.
- Skin Contact:** Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Consult with a physician if symptoms occur.
- Eye Contact:** Immediately flush eyes with copious amounts of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Consult with ophthalmologist.
- Ingestion:** Immediately wash mouth with plenty of water and give 1 - 2 cupfuls of milk or water if victim is conscious and alert. Consult with a physician.

Protection for personnel administering first aid:

Wear appropriate protective equipment if necessary.

5. Firefighting measures

Extinguishing media:

Suitable extinguishing media; Water, powder, carbon dioxide, foam

Fire Fighting Instructions:

Avoid non-fire fighting equipped personnel to enter. Extinguish upwind from the fire wearing appropriate protective gear.



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Specific extinguishing measures : Cut off the combustion source to the origin of fire and extinguish by using the appropriate fire extinguishing media.
Firefighting measures should be done from windward as much as possible.
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 :

Cut off the combustion source to the origin of fire and extinguish by using extinguishing media.
Combustion / Flue gases generate carbon monoxide and etc.
To avoid the fire from spreading, cool surrounding area with water spray.
Extinguish from windward and avoid inhaling any harmful gases. Use respiratory equipment if necessary.
Extinguish from the windward where the gases do not accumulate and prevent the leakage from spreading .
Wear appropriate protective wear (heat-proof) including air respirators.
Wear respiratory equipment for harmful gases are produced from combustion or high temperature.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures :

Avoid breathing dust / fume / gas / mist / vapors /spray.
Wear protective equipment (boots, gloves, and glasses) to prevent contact with skin.
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.
Ventilate released area.
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)
Provide adequate ventilation if indoors.
Cordon off the area and prevent entry of non-related personnel.
Work from windward and remove personnel downwind of the area.
Wear appropriate protective equipment to prevent contact with skin and inhaling fumes.
Remove ignition sources in the area promptly.
Prepare fire extinguishing equipment in case of ignition.

Environmental precautions :

Avoid releasing to the environment.
Collect spillage.
Do not empty into drain.
If it is mixed with wastewater, drain it after the activated sludge process.
Be careful not to influence living organisms and water quality in the environment by products released into rivers and any type of body of water.
Contact local authorities if it is flowing into rivers or any type of body of water as necessary.
Be careful not to influence the environment by products released into rivers or any type of body of water.
If the pollution of water pipes or waterways occur, contact relevant organizations.
Clean the area and avoid entry into plumbing system.
Be careful not drain or release untreated waste water into the environment.



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Methods and materials for recovery and neutralization:

- Contain the flow path with blankets or sand bags and collect into an appropriate container for large spills.
- Gather and collect into a container for small spills.
- Prevent the inflow into drains, sewer, basement, or enclosed areas.
- Clean spills frequently as there is danger of slipping on remnants.
- Remove all ignition sources.
- Smoking, open flame or ignition sources are not allowed in the area.
- Contain with consideration to safety.
- Collect into open container by absorbing with cloths, rags, sand or etc. and then rinse with plenty of water.
- Collect what has scattered into a container that can be sealed.
- Clean the spilled area with a cloth or a rag.
- Wear appropriate protective equipment throughout the process.

7. Handling and storage

Relevant regulations shall be subject to where this product will be handled and stored.

Handling:

- Wear appropriate protective gear. Do not contact with eyes, skin and on clothing.
- Do not expose to fire, high temperature, shock and friction.
- Facilities must be equipped with countermeasure against static electricity.

Storage:

- Keep container tightly closed. Avoid such conditions as direct sunlight, high temperature, high humidity and high piling.
- Store in low-humid, low-temperature area.

8. Exposure controls/personal protection

- Exposure limit values :** No data found
- Engineering measures:** Facilities storing or utilizing the material should be equipped with an eye wash facilities and a safety shower.
Use adequate ventilation to keep airborne concentrations low.

<To be continued>



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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.

9. Physical and chemical properties

Appearance (physical state, color, etc.):

Physical state;	Crystalline powder
Color;	Yellow
Odour;	Mild
Flash point:	Approx 61°C
Relative density:	Approx 0.8
Decomposition temperature:	Approx 145°C

10. Stability and reactivity

Stability: Gradually decomposes and release nitrogen gas.

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:

Toxic gases of carbon monoxide, nitrogen oxides, and sulfur oxide
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; 2-Propanol : Category 5. Oral, rat LD50=3,435 mg/kg

Acute toxicity (Transdermal):

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

Information on ingredients; 2-Propanol : Category 5. Dermal, rbt LD₅₀=4,059 mg/kg

Acute toxicity(Inhalation):

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

Information on ingredients; No information available.

<To be continued>



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Skin corrosion/irritation:

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

Information on ingredients; No information available.

Serious eye damage/irritation:

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

Information on ingredients; 2-Propanol : Category 2A – 2B.

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, Classification not possible based on the calculation.

Information on ingredients; No information available.

Germ cell mutagenicity:

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

Information on ingredients; No information available.

Carcinogenicity:

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

Information on ingredients; No information available.

Reproductive toxicity:

Information on product; No information available, Category 2 based on the calculation.

Information on ingredients; 2-Propanol : Category 2

STOT–single exposure:

Information on product; No information available, Category 2 (Kidney, Central nervous system, Systemic toxicity) based on the calculation.

Information on ingredients;
2-Propanol Category 1 (central nervous system, kidney, systemic toxicity)
Category 3 (respiratory tract irritation)

STOT–repeated exposure:

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

Information on ingredients;
2-Propanol Category 2 (liver, blood vessel, spleen).

Aspiration hazard:

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

Information on ingredients; No information available.



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12. Ecological information

Ecotoxicity:

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

Information on ingredients; No information available.

Persistence and degradability:

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

Information on ingredients; No information available.

Bioaccumulative potential:

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

Information on ingredients; No information available.

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.

This product is not classified as Flammable solids.



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15. Regulatory information

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

EC	EINECS	Listed
	R Phrases	R36 Irritating to the eyes
		R37 Irritating to the respiratory system
		R38 Irritating to the skin
S Phrases	S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice	
	S37 Wear suitable gloves	
	S39 Wear eye/face protection	
United States	TSCA	Listed
	PRTR Law	Not applicable

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:

Raw material company submitting MSDS

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