

Trade name : AQUASOL HS SDS Number : A-230J-E2U Edited : January 6, 2020 Revised : January 6, 2020 Printed : January 6, 2020

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1.	Product Identification			
	Trade name :	AQUASOL HS		
	SDS Number	A-230J-E2U		
	Manufacturer's name	Murakami Screen U.S.A., Inc,		
	Address	745 Monterey Pass Road, Monterey	y Park, Californ	ia, U.S.A.
	Phone number	(323) 980-0662		
	Fax number	(323) 980-0659		
	Emergency phone num	Infotrac (800) 535-5053		
	Recommended use of chemical and restr	rictions on use : Material for screen	n printing. Not in	ntended for other applications
2.	Hazard identification			
	GHS classification :			
	Physical hazards;			
	Explosives	1	Not applicable	
	Flammable gases	1	Not applicable	
	Flammable aerosols	1	Not applicable	
	Oxidizing gases	1	Not applicable	
	Gases under pressure	1	Not applicable	
	Flammable liquids	1	Not classified	
	Flammable solids	1	Not applicable	
	Self-reactive substances and mixtures	1	Not classified	
	Pyrophoric liquids	1	Not classified	
	Pyrophoric solids	1	Not applicable	
	Self-heating substances and mixtures	1	Not classified	
	Substances and mixtures, which in con	ntact with water, emit flammable g	gases	Not classified
	Oxidizing liquids	1	Not applicable	
	Oxidizing solids	1	Not applicable	
	Organic peroxides	1	Not applicable	
	Corrosive metals	(Classification no	ot possible
	Health hazards ;			
	Acute toxicity (Oral)		Classification no	•
	Acute toxicity (Dermal)	(Classification no	ot possible
	Acute toxicity (Inhalation : Gases)		Classification no	
	Acute toxicity (Inhalation : Vapours)		Classification no	
	Acute toxicity (Inhalation : Dusts and		Classification no	•
	Skin corrosion/irritation		Classification no	•
	Eye damage/eye irritation		Classification no	
	Respiratory sensitization		Classification no	
	Skin sensitization		Classification no	•
	Germ cell mutagenicity		Classification no	
	Carcinogenicity	(Classification no	ot possible
	Reproductive toxicity		Classification no	•
		-	Classification no	
		-	Classification no	
	Aspiration hazard	(Classification no	ot possible



Environmental hazards ;
Hazardous to the aquatic environment (Acute toxicity)
Hazardous to the aquatic environment (Chronic toxicity)
Hazardous to the ozone layer

Pictogram and Symbol :

Substance or Mixture :

3. Composition/information on ingredients

Mixture

No symbol

Ingredients and concentration ranges :

Classification not possible Classification not possible Classification not possible

Chemical name		Water	Acetic acid ethenyl ester, homopolymer (PVAc)	Acetic acid ethenyl ester, homopolymer, hydrolyzed, cyclic acetal with 4-[2-(4- formylphenyl)ethenyl]-1-methylpyridinium, Me sulfate (PVA-SBQ)	Vinyl acetate
W	vt%	45≤<55wt%	35≤ <45wt%	$1 \leq < 10 \text{wt}\%$	<0.3 wt%
CA	CAS No.		9003-20-7	125229-74-5	108-05-4
Global	TSCA (USA)	Listed	Listed	Listed	Listed
Inventories	ENCS (Japan)	Listed	Listed	Listed	Listed

4. First aid measures

First aid measures				
Inhalation :	Remove victim	to fresh air and keep at rest in a position comfortable for breathing.		
	Get medical adv	vice / attention if you feel unwell.		
	Get medical adv	rice / attention if experiencing respiratory symptoms.		
	Cover body with	h blanket to warm and keep at rest.		
	Perform CPR if	not breathing.		
Skin Contact :	Remove / Take	off all contaminated clothing immediately.		
	Wash with plent	h with plenty of soap and water.		
	Get immediate r	nedical advice / attention, if skin irritation or rash occurs.		
Eye Contact :	Rinse cautiously	y with water for several minutes.		
	Remove contact	elenses, if present and easy to do. Continue rinsing.		
Rinse with clean		n water for at least 15 minutes and then seek medical attention if necessary.		
	When rinsing, o	When rinsing, open your eyelids with fingers to insure saturation of water.		
	Seek medical at	tention if the problem persists.		
Ingestion :	Rinse mouth. De	o not induce vomiting.		
	Get immediate medical advice / attention.			
	Do not give an u	inconscious person anything to drink.		
	If vomiting occu airway and prev	irs, lean patient forward or place on left side (head-down position, if possible) to maintain open ent aspiration.		
Protection for personnel administering first aid : Wear appropriate protective equipment if necessary.				
Firefighting measures				
Extinguishing media :				
Suitable extinguishing media ;		Fire-extinguishing powder, fire-fighting foam, carbon dioxide, sand, water spray		
Unsuitable extinguisl	hing 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

5.



monoxide, carbon dioxide, and sulfur dioxide.

monoxide, carbon dioxide, and		id sulfur dioxide.
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 pred	cautions :
	Cut off the combustion source	e to the origin of fire and extinguish by using extinguishing media.
	Combustion / Flue gases gene	erate carbon monoxide and etc.
	To avoid the fire from spread	ing, cool surrounding area with water spray.
	Extinguish from windward an	nd avoid inhaling any harmful gases. Use respiratory equipment if necessary.
	Extinguish from the windwar	d where the gases do not accumulate and prevent the leakage from spreading.
	Wear appropriate protective v	wear (heat-proof) including air respirators.
	Wear respiratory equipment f	or harmful gases are produced from combustion or high temperature.
6.	Accidental release measures	
	Personal precautions, protective equip	oment and emergency procedures :
	Avoid breathing dust / fume /	gas / mist / vapors /spray.
	Wear protective equipment (b	poots, gloves, and glasses) to prevent contact with skin.
	Remove ignition sources in the	ne area and work from windward.
	Clean up immediately when i	t spills on the floor or any surface. (The floor surface becomes slippery).
	Prohibit entry other than relat	red personnel.
	Ventilate released area.	
	Do not touch and/or walk in t	he spills.
	The worker wears an appropr	iate protective equipment, and avoids eyes, the skin contacts, and inhalations. (refer to Item 8)
	Provide adequate ventilation	if indoors.
	-	ent entry of non-related personnel.
		nove personnel downwind of the area.
		equipment to prevent contact with skin and inhaling fumes.
	Remove ignition sources in the	
	Prepare fire extinguishing equ	lipment in case of ignition.
	Environmental precautions :	
	Avoid releasing to the environ	nment.
	Collect spillage.	
	Do not empty into drain.	
		, drain it after the activated sludge process.
	Be careful not to influence live body of water.	ving organisms and water quality in the environment by products released into rivers and any type of
	Contact local authorities if it	is flowing into rivers or any type of body of water as necessary.
	Be careful not to influence the	e environment by products released into rivers or any type of body of water.
	If the pollution of water pipe	or waterways occur, contact relevant organizations

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

Clean the area and avoid entry into plumbing system.



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Be careful not drain or release untreated waste water into the environment.

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.
- 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 : Work in accordance with the Occupational Safety and Health Act and related laws and regulations.

Keep the concentration below the allowed limit.

Avoid inhalation and contact.

Wear protection if risk of exposure occurs.

Use only in a well-ventilated area.

Avoid smoking, open flames, heat and sources of ignition.

Always cleanse with soap and water after handling.

Determine proper procedures for compliance.

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.

Prohibit entry to work areas other than related personnel.

Collect used containers in a defined / fixed area.

Use containers that are not damaged, corroded or cracked.

Use local exhaust ventilation systems indoors work areas.

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

Storage : Store in a well-ventilated area.

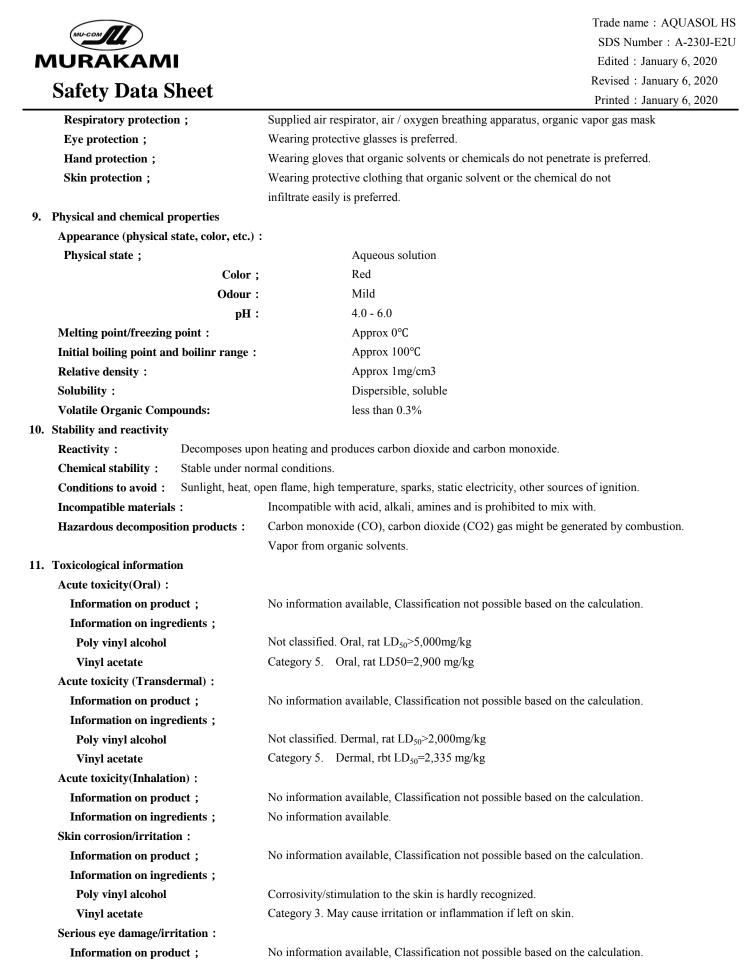
Protect from sunlight (Ultra Violet-light). Keep container tightly closed.

Keep cool. Store in a dark light-safe area. Do not freeze.

8. Exposure controls/personal protection

Management density :	Not specified.	
Exposure limit values :	Not specified.	
Engineering measures:	In the case of indoor use, contain at the source or install a local exhaust system.	
	Provide safety shower and eye / hand wash stations and identify the area clearly.	
	Contain at the source and install a local exhaust system if dust is generated.	
Personal protective equipment :	Wear following protective equipment as necessary and accordingly.	

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





Information on ingredients;	
Vinyl acetate	Category 2A. Causes serious damage.
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 ;	
Vinyl acetate	Category 1.
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.
Vinyl acetate	Category 2.
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.
Vinyl acetate	Category 2. A3/ACGIH (2001), Group 2B/IARC (1995).
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 ;	
Vinyl acetate	Category 3 (respiratory tract irritation).
STOT-repeated exposure :	
Information on product;	No information available, Classification not possible based on the calculation.
Information on ingredients ;	
Vinyl acetate	Category 2 (respiratory organs).
Aspiration hazard :	
Information on product ;	No information available, Classification not possible based on the calculation.
Information on ingredients ;	No information available.
Ecological information	
Ecotoxicity :	
Information on product ;	No information available, Classification not possible based on the calculation.
Information on ingredients ;	
Vinyl acetate	Category 2.
Persistence and degradability :	
Information on product ;	No information available.
Information on ingredients ;	
Poly vinyl alcohol	Biodegradation is carried out by sludge containing pseudomonas.
	Classified as a "Substance determined to have very little or no bioaccumulation."

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.
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 regulations.

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.

Confidential information:

The manufacturer reserves the right to holding any confidential or proprietary information as non-disclosure items.

Reference citations:

Raw material company submitting SDS

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