



SANSEI PAINT Co.,Ltd.

1261-5 Nukatabe-kitamachi Yamato-kohriyama Nara, JAPAN

TEL 0743-56-8611 FAX 0743-56-8621 Zip code : 639-1037

URL:<http://www1.kcn.ne.jp/kikyou> E.mail:kikyou@kcn.ne.jp

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Zero VOC paint - "AquaGuard Clean" varnishes are a completely unique water borne range of decorative finishes. It's the only range of totally solvent-free varnishes available anywhere in the world today and has been independently tested.

Conventional gloss emulsion contain solvents which can cause irritation and serious health problems. **"AquaGuard Clean"** - the world's only range of solvent free products and varnishes - literally a breath of fresh air!

"AquaGuard Clean"-FACTS

What is in "AquaGuard Clean" water borne emulsions ?

water, synthetic binders or resins (water-based acryl-urethan - non toxic)
pigments (***AquaStain*** - all non toxic)
viscosity builders - cellulose & resinous (non-toxic)
opacifiers - silicon dioxide (non-toxic)
levelling aids (non-toxic)
waxes & modifiers (non-toxic)

What is NOT in "AquaGuard Clean" products?

solvents and white spirit, turpentine, VOC'S glycols, coalescents,
animal products
heavy metals, - lead, cadmium, mercury, crom etc
formaldehyde and formaldehyde donors, acrolein

Many "Organic" products DO contain toxic solvents such as turpentine
Also, low-solvent does not equate with no solvent; **"AquaGuard Clean"** water borne products contains NO Solvent.

Common questions regarding water borne products

Q - Why is solvent-free important?

A - Because not only are lingering smells in the home unpleasant, but many products including most matt and silk contain solvents which are positively harmful and cause Sick Building Syndrome, Danish Syndrome, asthma, allergies and chemical sensitivities.

Q - Why should I buy ***"AquaGuard Clean"*** rather than the "low odour" products widely available?

A - For your health, for your peace of mind and for your environment

"AquaGuard Clean" is made to extremely high standards, using only the best raw materials. Full quality testing is carried out at every stage of manufacture. Used correctly, ***"AquaGuard Clean"*** will perform as well if not better than old-fashioned solvent-based products. All products are washable and all shades are non-yellowing. ***"AquaGuard Clean"*** water borne and varnishes are available in many different formats to suit almost every domestic and commercial application. All products are available in either 4 or 16 litres containers.

Totally Solvent-Free, water borne, Non-Yellowing, Orderless



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MATERIAL SAFETY DATA SHEET

1. SUBSTANCE/PREPARATION AND COMPANY IDENTIFICATION

1.1 PRODUCT NAME: Aqua-Stain

1.2 COMPANY: SANSEI PAINT Co.Ltd.
1261-5 Nukatabe-kitamachi Yamatokohriyama Nara, JAPAN
Zip code:639-1037 Tel. 0743-56-8611 Fax 0743-56-8621

1.3 EMERGENCY CONTACT: 07435-6-8611

Componets Name	CAS No.	Contents
Acryl Resin	--	10-20 %
Water	--	40-50 %
Pigment	--	15-30 %
Additives(Defoamer)	--	0- 5 %

2. FIRST-AID MEASURES

2.1 SKIN CONTACT: Wash with soap and plenty of water. Do not use organic solvents.

2.2 EYE CONTACT: Rinse immediately with water for at least 15 minutes.
In case of eye irritation, get medical attention.

2.3 INHALATION: Move affected person to fresh air. In case of irritation of respiratory system or mucous membranes, or if you feel unwell or in case of prolonged exposure, get medical attention.

3.4 INGESTION: Affected person should drink 500 - 800 ml water, if possible with suspended activated carbon for medical use. In case of spontaneous vomiting be sure that vomitus can freely drain because of danger of suffocation. Give water repeatedly. Artificial induction of vomiting should be restricted to first aid staff. Give nothing by mouth in case of unconsciousness or convulsions. Get medical attention.

4. FIRE-FIGHTING MEASURES

4.1 SUITABLE EXTINGUISHING MEDIA: Water, Dry powder, Foam.

4.2 EXPOSURE HAZARDS: Thermal decomposition or burning may release oxides of carbon and other toxic gases or vapours.

4.3 PROTECTIVE EQUIPMENT FOR FIREFIGHTERS: Use full protective clothing for chemicals and a self-contained breathing apparatus.



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AquaGuard Clean

Water based -- Water borne, non-toxic,
non-VOCs(Volatile Organic Compounds)

"AquaGuard Clean" is an extremely clear acryl-urethane coating for wood surface.
A specially formulated polymer micro-emulsion used in all Aqua-resin mixes.

It will dry quickly, provide waterproof and protection against environmental exposure.

"AquaGuard Clean" is a special low-VOC formula (less than 0.02%) that is ideal for
use as a clear and safety coating and is fully tintable for custom applications.

Technical Overview

Viscosity	15 second (Ford cup #4)
Non volatile resin	33%
Drying Time	20 min at 20 (finger touch) 2 hr at 20 (dry)
Gloss	93%

Excellent bond to wood surfaces

No Solvents

Non-Toxic

Durable

Water-Clear

Environmentally Safe

Superior Adhesion

Coverage per kg paint : 2-coat : 4-5m²/kg, 3-coat : 3-4m²/kg



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Zip code:639-1037 Tel. 0743-56-8611 Fax 0743-56-8621

1.3 EMERGENCY CONTACT: 07435-6-8611

Componets Name	CAS No.	Contents
Acryl-Urethan Resin	--	30-40 %
Water	--	60-70 %
Additives(Defoamer)	--	0- 5 %

2. FIRST-AID MEASURES

2.1 SKIN CONTACT: Wash with soap and plenty of water. Do not use organic solvents.

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5. ACCIDENTAL RELEASE MEASURES

5.1 PERSONAL PRECAUTIONS: Donot breath dust. Avoid ignition sources. Avoid contact with skin, eyes and clothing.

5.2 ENVIRONMENTAL PRECAUTIONS: Prevent contamination of soil, drains and surface waters.

5.3 METHODS FOR CLEANING: Take up mechanically and place in suitable and closable container for disposal.

6. HANDLING AND STORAGE

6.1 HANDLING: Ensure good ventilation and local exhaust. Do not eat, drink or smoke at the workplace.

6.2 STORAGE: Keep away from food and drink. Store in the original container securely closed and not exceeding 50 . Protect from light and heat.

7. EXPOSURE CONTROLS / PERSONAL PROTECTION

7.1 TECHNICAL PROTECTIVE MEASURES: Organic solvents concentration measurement is not required, because the content of volatile organic compounds is less than 0.1%.

7.2 EXPOSURE CONTROL LIMITS: None.

7.3 HAND PROTECTION: Wear suitable gloves.

7.4 EYE PROTECTION: Wear suitable goggles or face protection.

7.5 SKIN PROTECTION: Wear overall and closed footwear.

8. PHYSICAL AND CHEMICAL PROPERTIES

Boiling point/range :	100
Flashpoint:	--
Ignition:	--
Vapour pressure:	--
Explosive properties :	--
Appearance:	colorless translucent liquid
Odour:	Faint
Density :	1.02 ± 0.05 g/cm ³ at 20
Viscosity :	

9. TOXICOLOGICAL INFORMATION

Component	Concentration	ACGIH	IARC	Others
Acryl-urethan Resin	-- ppm	-- ppm		--