
INCOMPATIBILITY

None known.

HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Monoxide

HAZARDOUS POLYMERIZATION

Will not occur.

Section VII -- SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Remove all sources of ignition. Ventilate and remove with inert absorbent.

WASTE DISPOSAL METHOD

Waste from this product is not hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State, and Local regulations regarding pollution.

Section VIII -- PROTECTION INFORMATION

PRECAUTIONS TO BE TAKEN IN USE

Use only with adequate ventilation. Avoid breathing vapor and spray mist. Avoid contact with skin and eyes. Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section II) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section II, the applicable limits for nuisance dusts are ACGIH TLV 10 mg./m³ (total dust), 3 mg./m³ (respirable fraction), OSHA PEL 15 mg./m³ (total dust), 5 mg./m³ (respirable fraction).

VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section II is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

RESPIRATORY PROTECTION

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section II.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

PROTECTIVE GLOVES

Wear gloves which are recommended by glove supplier for protection against materials in Section II.

EYE PROTECTION

Wear safety spectacles with unperforated sideshields.

Section IX -- PRECAUTIONS

DOL STORAGE CATEGORY

3B

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally. Keep out of the reach of children.

FLAMMABILITY CLASSIFICATION

Not Applicable

EXTINGUISHING MEDIA

Carbon Dioxide, Dry Chemical, Alcohol Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS

Closed containers may explode (due to the build-up of pressure) when

exposed to extreme heat.

SPECIAL FIRE FIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus

should be used. Water spray may be ineffective. If water is used, fog

nozzles are preferable. Water may be used to cool closed containers to

prevent pressure build-up and possible autoignition or explosion when

exposed to extreme heat.

Section V -- HEALTH HAZARD DATA

ROUTES OF EXPOSURE

Exposure may be by INHALATION and/or SKIN or EYE contact, depending on

conditions of use. Alcohols and acetates can be absorbed through the skin.

Follow recommendations for proper use, ventilation, and personal protective

equipment to minimize exposure.

ACUTE Health Hazards

EFFECTS OF OVEREXPOSURE

Irritation of eyes, skin and upper respiratory system. In a confined

area vapors in high concentration may cause headache, nausea or dizziness.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

Redness and itching or burning sensation may indicate eye or excessive

skin exposure.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

None generally recognized.

EMERGENCY AND FIRST AID PROCEDURES

If INHALED:

If affected, remove from exposure. Restore breathing.

Keep warm and quiet.

If on SKIN:

Wash affected area thoroughly with soap and water.

Remove contaminated clothing and launder before re-use.

If in EYES:

Flush eyes with large amounts of water for 15 minutes.

Get medical attention.

CHRONIC Health Hazards

Crystalline Silica (Quartz, Cristobalite) is listed by IARC and NTP.

Long term exposure to high levels of silica dust, which can occur only when

sanding or abrading the dry film, may cause lung damage (silicosis) and

possibly cancer.

Cobalt and cobalt compounds are classified by IARC as possibly

carcinogenic to humans (group 2B) based on experimental animal data,

however, there is inadequate evidence in humans for its carcinogenicity.

Prolonged overexposure to solvent ingredients in Section II may cause

adverse effects to the liver, urinary and blood forming systems.

Rats exposed to titanium dioxide dust at 250 mg./m³ developed lung

cancer; however, such exposure levels are not attainable in the workplace.

Section VI -- REACTIVITY DATA

STABILITY -- Stable

CONDITIONS TO AVOID

None known.

MATERIAL SAFETY DATA SHEET

F78WXW6523-4373
01 00

MANUFACTURER'S NAME
THE SHERWIN-WILLIAMS COMPANY
101 Prospect Avenue N.W.
Cleveland, OH 44115

EMERGENCY TELEPHONE NO.
(216) 566-2917

DATE OF PREPARATION
12-JUN-97

INFORMATION TELEPHONE NO.
(216) 566-2902

Section I -- PRODUCT IDENTIFICATION

PRODUCT NUMBER

F78WXW6523-4373

HMS CODES

Health 3*
Flammability 1
Reactivity 0

PRODUCT NAME

KEM AQUA* 280 Water Reducible Enamel, EGGSHELL (AT)

PRODUCT CLASS

Water-reducible Acrylic Coating

Section II -- HAZARDOUS INGREDIENTS

INGREDIENT CAS No.	% by WT	ACGIH TLV	OSHA PEL	UNITS	V.P.
2-Propoxyethanol 2807-30-9	3	Not Established			1.30
2-Butoxyethanol 111-76-2	9	25	25 PPM (Skin)		0.60
Acetone. 67-64-1	6 STEL	750 1000	750 PPM 1000 PPM		180.00
Cobalt 2-Ethylhexanoate. 136-52-7	0.1	Not Established			0.00
Triethylamine. 121-44-8	1 STEL	10 15	10 PPM 15 PPM		54.00
Quartz 14808-60-7	18	0.1	0.1	MG/M3 as Resp. Dust	
Titanium Dioxide. 13463-67-7	13	10	10(5)	MG/M3 as Dust ***	
pH - 7.0		*** Total Dust (Respirable Fraction)			

Section III -- PHYSICAL DATA

PRODUCT WEIGHT -- 10.45 lb./gal. EVAPORATION RATE -- Slower than Ether
SPECIFIC GRAVITY -- 1.26 VAPOR DENSITY -- Heavier than Air
BOILING POINT -- 132-340 F MELTING POINT -- N.A.
VOLATILE VOLUME -- 67 % SOLUBILITY IN WATER -- N.A.
VOC (Theoretical) -- 2.71 lb. 325 gm. (less Federally Exempt Solvents)

Section IV -- FIRE AND EXPLOSION HAZARD DATA

FLASH POINT LEL UEL
1200 F PMCC N.A. N.A.

6

Waste from this product is not hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

WASTE DISPOSAL

Photochemically Reactive
Density of Organic Solvent Blend 7.09 lbs/gal
NO

AIR QUALITY DATA

Volatile HAPS Pounds per Gallon of Solids 1.30 lbs/gal
Volatile HAPS Pounds per Gallon of Solids 3.95 lbs/gal
Volatile HAPS Pounds per Pound of Solids 0.25 lbs/lb

HAZARDOUS AIR POLLUTANTS

A. Coating Density	10.45 lb/gal	1252 g/l
B. Total Volatiles	49.9 % by wt.	67.0 % by vol.
Non-organic volatiles:		
Ammonia	0.0 % by wt.	0.1 % by vol.
C. Federally exempt solvents:		
Water	30.4 % by wt.	38.3 % by vol.
Acetone	5.8 % by wt.	9.3 % by vol.
D. Organic Volatiles	13.6 % by wt.	19.4 % by vol.
E. Percent Non-Volatile	50.1 % by wt.	33.0 % by vol.
F. VOC Content	1.42 lb/gal	170 g/l total
1.	2.71 lb/gal	325 g/l less exempt solvents
2.	4.31 lb/gal	517 g/l solids
	0.27 lb/lb	0.27 kg/kg solids

6

VOLATILE ORGANIC COMPOUNDS (follows EPA "as Supplied" VOC Data Sheet)

737

AIR QUALITY DATA SHEET

01 00

THE SHERWIN-WILLIAMS COMPANY
 101 Prospect Avenue N.W.
 Cleveland, OH 44115
 12-JUN-97

The composition given below is the composition of the product AS FORMULATED. Variations may occur on individual batches because of adjustments made during production.

PRODUCT

* - Trade Mark

F78WXW6523-4373

KEM AQUA* 280 Water Reducible Enamel, EGGSHELL (AT)

WEIGHT/GALLON PRODUCT
 10.45 lbs/gallon

VOLATILE ORGANIC COMPOUNDS
 325 Grams 2.71 Pounds

NON-VOLATILE Weight Volume
 50.1% 33.0%

VOLATILE Weight Volume
 49.9% 67.0%

DENSITY OF ORGANIC SOLVENT BLEND
 7.09 Pounds/Gallon

SOLVENT COMPOSITION

	PERCENT OF VOLATILE by Weight	by Volume
64742-88-7 Mineral Spirits.	0.6	0.7
64741-65-7 Mineral Spirits (Odorless).	0.5	0.6
2807-30-9 2-Propoxyethanol	5.4	5.6
111-76-2 2-Butoxyethanol	17.5	18.2
67-64-1 Acetone.	11.7	13.8
80-62-6 Methyl Methacrylate.	0.4	0.4
121-44-8 Triethylamine.	2.1	2.6
96-29-7 Methyl Ethyl Ketoxime.	0.7	0.7
7732-18-5 Water	60.9	57.1

SOLVENT BLEND COMPOSITION PER CLASSIFICATION

Olefins of Cyclo-Olefinic compounds	0.4
Aromatic Hydrocarbons with 8 or more Carbon Atoms except Ethylbenzene	0.0
Branched Ketones	0.0
Ethylbenzene and/or Toluene and/or Trichloroethylene	0.0
TOTAL NON-COMPLYING	0.5

The Solvent Blend of this product IS NOT PHOTOCHEMICAL as packaged.

Regulatory Information Services

ENVIRONMENTAL DATA SHEET

01 00 116371

THE SHERWIN-WILLIAMS COMPANY
 101 Prospect Avenue N.W.
 Cleveland, OH 44115
 12-JUN-97

All data given below are MAXIMUM THEORETICAL VALUES based on the product AS CURRENTLY FORMULATED. Variations may occur on individual batches due to adjustments made during production.

* - Trade Mark

PRODUCT
 F78WXM6523-4373

KEM AQUA* 280 Water Reducible Enamel, EGGSHELL (AT)

PRODUCT WEIGHT 10.45 lb/gal
 SPECIFIC GRAVITY 1.26
 FLASH POINT >200 F PMCC

HAZARD CATEGORY (for SARA 311/312)
 Acute Chronic

SARA1 SARA1 HAPS1 Pct 1 Pct
 302 ICERC. 313 112 1 by 1
 EHS 1 TC 1 MF 1 Vol 1

VOLATILE INGREDIENTS

2-Propoxyethanol	2807-30-9	N	N	***	***	3	4
2-Butoxyethanol	111-76-2	N	N	***	***	9	12
Acetone	67-64-1	N	Y	N	N	6	9
Triethylamine	121-44-8	N	Y	Y	Y	1	2
Water	7732-18-5	N	N	N	N	30	38
REGULATED COMPOUNDS		N	N	Y	Y	11	
*** Glycol Ethers		N	N	Y	Y	11	

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Section X -- OTHER REGULATORY INFORMATION
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SARA 313 (40 CFR 372.650) SUPPLIER NOTIFICATION

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
121-44-8	Triethylamine.	1	
	Glycol Ethers	11	

CALIFORNIA PROPOSITION 65

WARNING: This product contains a chemical(s) known to the State of California to cause cancer.

TSCA CERTIFICATION

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

