



CONSERVATION BY DESIGN LIMITED

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MATERIAL SAFETY DATA SHEET

PRIMAL WS-24 RESIN (SY27)

I. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRIMAL(R) WS-24 Resin

Product Code: 66637
ER MSDS Date: '04-03-95
Key: 905707-6

Supplied by:

CONSERVATION BY DESIGN LIMITED
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See SECTION 16, for European Emergency Contact Information

2. COMPOSITION / INFORMATION ON INGREDIENTS

No.		CAS REG NO.	WEIGHT(,%)
1	Acrylic copolymer	Not Hazardous	35 - 37
2	Individual residual monomers.	Not Required	<0.1
3	Ammonia	7664-41-7	0.1 MAX.
4	Water	7732-18-5	63-65

See SECTION 8, Exposure Controls / Personal Protection
EEC Risk Classification

No.		Classification and Hazard Labelling
3	Ammonia	T R: 10-23

See SECTION 15, Regulatory Information
This product is a preparation.

3. HAZARDS IDENTIFICATION

Primary Routes of Exposure Inhalation:

Inhalation

Skin Contact

Inhalation of vapor or mist can cause the following:

headache - nausea - irritation of nose, throat, and lungs

Eye Contact

Direct contact with material can cause the following: - slight irritation

Skin Contact

Prolonged or repeated skin contact can cause the following: - slight skin irritation

4. FIRST AID MEASURES

Inhalation	Move subject to fresh air.
Eye Contact	Flush eyes with a large amount of water for at least 15 minutes. Consult a physician if irritation persists.
Skin Contact	Wash affected skin areas thoroughly with soap and water'. Consult a physician if irritation persists.
Ingestion	If swallowed, give 2 glasses of water to drink. Consult a physician. Never give anything by mouth to an unconscious person.

5. FIRE FIGHTING MEASURES

Flash Point	Non combustible
Auto-ignition Temperature	Not Applicable
Lower Explosive Limit	Not Applicable
Upper Explosive Limit	Not Applicable

Unusual Hazards

Material can splatter above IOOC/212F. Dried product can burn.

Extinguishing Agents

Use extinguishing media appropriate for surrounding fire. Personal Protective Equipment

Wear self-contained breathing apparatus (pressure-demand MSHA/NIOSH approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal Protection

Appropriate protective equipment must be worn when handling a spill of this material. See SECTION 8, Exposure Controls/Personal Protection, for recommendations. If exposed to material during clean-up operations, see SECTION 4, First Aid Measures, for actions to follow.

Procedures

- Keep spectators away. Floor may be slippery; use care to avoid falling.

Contain spills immediately with inert materials (e.g. sand, earth).

. Transfer liquids and solid diking material to separate suitable containers for recovery or disposal.

CAUTION: Keep spills and cleaning run-off out of municipal sewers and open bodies of water.

7. HANDLING AND STORAGE.

Storage Conditions

Keep from freezing; material may coagulate. The minimum recommended storage temperature for this material is 1C/34F. The maximum recommended storage temperature for this material is 60C/140F.

Handling Procedures

Monomer vapors can be evolved when material is heated during processing operations. See SECTION 8, Exposure Controls/Personal Protection, for types of ventilation required.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Exposure Limit Information

No.		CAS REG NO.	WEIGHT(%)
1	Acrylic copolymer	Not Hazardous	35-37
2	Individual residual monomers.	Not Required	<0.1
3	Ammonia	7664-41-7	0.1 MAX
4	Water	7732-18-5	63-65

Comp		ROHM AND HAAS		ACGIH		MAK (Germany)	
No.	Units	TWA	STEL	TWA	STEL	WERT	KAT.
1		None	None	None	None	None	None
2		a	a	a	a	a	a
3	ppm	25	35	25	35	50	b
4		None	None	None	None	None	None

a Not Required .,

b Maximum Limit: Category I

Respiratory Protection

None required if airborne concentrations are maintained below the exposure limit listed in 'Exposure Limit Information'. For airborne concentrations up to 10 times the THA/TLV's listed in "Exposure Limit Information", wear a MSHA/NIOSH approved (or equivalent) half-mask, air-purifying respirator. Air-purifying respirators should be equipped with 1 MSHA/NIOSH approved (or equivalent) cartridges for protection against organic vapors.

Eye Protection

Use chemical splash goggles (ANSI Z87.1 or approved equivalent).

Hand Protection

The glove(s) listed below may provide protection against permeation. Gloves of other chemically resistant materials may not provide adequate protection: - Neoprene

- Butyl rubber
- Natural rubber

Gloves should be removed and replaced immediately if there is any indication of degradation or chemical breakthrough.

Engineering Controls (Ventilation)

Use local exhaust ventilation with a minimum capture velocity of 100 ft/min. (0.5 m/sec.) at the point of vapor evolution. Refer to the current edition of Industrial Ventilation: A Manual of Recommended Practice published by the American Conference of Governmental Industrial Hygienists for information on the design, installation, use, and maintenance of exhaust systems. Other Protective Equipment
Facilities storing or utilizing this material should be equipped with an eyewash facility.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Milky
COLOUR	White
State	Liquid
Odor Characteristic	Ammonia odour
pH	6.8 to 7.1
Viscosity	600 CPS Maximum
Specific Gravity (Water = 1)	1 to 1.2 g/c'm]
Vapor Density (Air = 1)	< 1 Water .
Vapor Pressure	2266.5 Pa @20°C/68°F
Water Melting Point	0°C/32°F Water
Boiling Point	100°C/212°F Water
Solubility in Water	Dilutable
Percent Volatility	63 to 65 % Water
Evaporation Rate	(BAc = 1) < 1 Water

See SECTION 5, Fire Fighting Measures

10. STABILITY AND REACTIVITY

Instability

This material is considered stable. However, avoid temperatures above 177°C/350°F, the onset of polymer decomposition. Thermal decomposition is dependent on time and temperature.

Hazardous Decomposition Products,

Thermal decomposition may yield acrylic monomers.

Hazardous Polymerization

Product will not undergo polymerisation.

Incompatibility

There are no known materials which are incompatible with this product.

11. TOXICOLOGICAL INFORMATION

Acute Data

The information shown in SECTION 3, Hazards Identification, is based on the toxicity profiles for a number of acrylic emulsions that are compositionally similar to this product.

Typical data are:

Dermal LD50 - rabbit: >5000 mg/kg

Oral LD50 - rat: >5000 mg/kg

Skin irritation - rabbit: practically non-irritating

Eye irritation - rabbit: inconsequential irritation

12. ECOLOGICAL INFORMATION

No Applicable Data -

13. DISPOSAL CONSIDERATIONS

Procedure

Coagulate the emulsion by the stepwise addition of ferric chloride and lime. Remove the clear supernatant and flush to a chemical sewer. Incinerate liquid and contaminated solids in accordance with local, state, and federal regulations.

Waste Key for the Product as Delivered (Germany)

573 03 Dispersions or Emulsions of plastic material

14. TRANSPORT INFORMATION

Label. Not Regulated

15. REGULATORY INFORMATION United States

All components of this product are in compliance with the inventory listing requirements of the U.S. Toxic Substances Control Act (TSCA) Chemical I Substance Inventory.

EEC .

This product satisfies all the requirements of the European Inventory of Existing Chemical Substances (EINECS) .

EINECS Information

No.		CAS REG NO.	EINECS
1	Acrylic copolymer.	Not Hazardous	
2	Individual residual monomers.	Not Required	
3	Ammonia	7664-41-7	2316353
4	Water	7732-18-5	2317912

Indication of Danger

This product is not hazardous according to EEC Directives 67/548/EEC and 88/379/EEC. ::

16. OTHER INFORMATION

Rohm and Haas Hazard Rating	Scale
Toxicity I Fire 0 Reactivity 0 Special - I	4=EXTREME 3=HIGH 2=MODERATE 1=SLIGHT 0=INSIGNIFICANT

Ratings are based on Rohm and Haas guide- lines, and are intended for internal use.

EMERGENCY TELEPHONE NUMBERS

Italia (0) 363 8201

United Kingdom (0) 191 4898181

France (16) 88 73 60 00 11

Espana (9) 48 822 700

Belgique-Belgium (0) 3 5410016 11

Sverige (0) 418 450490

Vienna (0222)434343 (4064343)

ABBREVIATIONS:

ACGIH = American Conference of Governmental Industrial Hygienists
MAK = Maximum Workplace Concentrations .
TLV = Threshold Limit Value
PEL = Permissible Exposure Limit .
TWA = Time Weighted Average
STEL = Short-Term Exposure Limit
BAc = Butyl acetate
Bar denotes a revision from previous MSDS in this area.

The information contained herein relates only to the specific material identified. Rohm and Haas Company believes that such information is accurate and reliable as of the date of this material safety data sheet, but no representation, guarantee or warranty, express or implied, is made as to the accuracy, reliability, or completeness of the information. Rohm and Haas Company urges persons receiving this information to make their own determination as to the information's suitability and completeness for their particular application.