



C.T.S. S.R.L.
Via Piave, 20/22 - 36077 Altavilla Vicentina (VI) - Italy
Tel. +39 0444 349088 - Fax +39 0444 349039
www.ctseurope.com - cts.italia@ctseurope.com



Milano Via A.F. Stella, 5 - 20125 Tel. +39 02 67493225 Fax +39 02 67493233 cts.milano@ctseurope.com	Firenze Via L. Gordiniani, 54 - 50127 Tel. +39 055 3245014 Fax +39 055 3245078 cts.firenze@ctseurope.com	Roma Via G.Fantoli, 26 - 00149 Tel. +39 06 55301779 Fax +39 06 5592891 cts.roma@ctseurope.com	Trevi (PG) Via Popoli, 15 - 06039 Tel. +39 0742 381027 Fax +39 0742 386413 cts.trevi@ctseurope.com	Napoli Via delle Puglie, 228 int.4 - 80143 Tel. +39 081 7592971 Fax +39 081 7593118 napoli@ctseurope.com	Gravina di Catania (CT) Via A. Gramsci, 3/A - 95030 Tel. +39 095 7441565 Fax +39 095 7442954 cts.catania@ctseurope.com
--	---	--	---	---	---

MATERIAL SAFETY DATA SHEET

(Safety Data Sheet according to Directive 2001/58/EC)

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: **PARALOID™ B-44 100% RESIN**

Product code: **01139101-05-25-36**
Revision date: **27/03/1998**

Producer: **Rohm and Haas Company**

Distributor: **C.T.S. S.r.l.**
36077 Altavilla Vicentina (VI) - Italy
+39 0444 349088
+39 0444 349039
e-mail: cts.italia@ctseurope.com

PARALOID™ is a trademark of Rohm and Haas Company or one of its subsidiaries or affiliates.

emergency telephone number: **+39 0444 349088**

2. COMPOSITION/INFORMATION ON INGREDIENTS

No.		CAS REG NO.	WEIGHT (%)
1	Acrylic polymer	Not Hazardous	98-100
2	Toluene.....	108-88-3	0.8 MAX
3	Ethyl acrylate.....	140-88-5	0.05 MAX
4	Individual residual monomers	Not Required	< 0.2

See SECTION 8, Exposure Controls / Personal Protection

EEC Risk Classification

No.		Classification and Hazard Labeling
2	Toluene.....	F,Xn R: 11,20
3	Ethyl acrylate.....	F,Xn R: 11,20/22,36/37/38,43

See SECTION 15, Regulatory Information

This product is a preparation.

3. HAZARDS IDENTIFICATION

First Ways of Exposure

Inhalation
Eye Contact
Skin Contact

Inhalation

Inhalation of monomer vapors from heated product can cause the following reactions:



C.T.S. S.R.L.
 Via Piave, 20/22 - 36077 **Altavilla Vicentina (VI) - Italy**
 Tel. +39 0444 349088 - Fax +39 0444 349039
 www.ctseurope.com - cts.italia@ctseurope.com



Milano Via A.F. Stella, 5 - 20125 Tel. +39 02 67493225 Fax +39 02 67493233 cts.milano@ctseurope.com	Firenze Via L. Gordiniani, 54 - 50127 Tel. +39 055 3245014 Fax +39 055 3245078 cts.firenze@ctseurope.com	Roma Via G.Fantoli, 26 - 00149 Tel. +39 06 55301779 Fax +39 06 5592891 cts.roma@ctseurope.com	Trevi (PG) Via Popoli, 15 - 06039 Tel. +39 0742 381027 Fax +39 0742 386413 cts.trevi@ctseurope.com	Napoli Via delle Puglie, 228 int.4 - 80143 Tel. +39 081 7592971 Fax +39 081 7593118 napoli@ctseurope.com	Gravina di Catania (CT) Via A. Gramsci, 3/A - 95030 Tel. +39 095 7441565 Fax +39 095 7442954 cts.catania@ctseurope.com
--	---	--	---	---	---

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

Eye Contact

Monomer vapors from heated product can cause the following reactions:

- irritation

Skin Contact

Prolonged or repeated skin contact can cause the following reactions:

- slight skin irritation

4. FIRST AID MEASURES

Inhalation

Move subject to fresh air.

Eye Contact

Rinse with plenty of water at least for 15 minutes. Consult a doctor.

Skin Contact

Wash affected skin areas thoroughly with soap and water. Consult a doctor if irritation persists.

Ingestion

If swallowed, give 2 glasses of water to drink. Consult a doctor. Never give anything by mouth to an unconscious person.

5. FIRE-FIGHTING MEASURES

Flash Point	Not Applicable
Auto-ignition Temperature	480 °C / 896 °F
Lower Explosive Limit	0.03 oz/ft3 30.03 g/m3
Upper Explosive Limit	Not Applicable

Unusual Hazards

Material as sold is combustible; it burns vigorously with intense heat.

Extinguishing Agents

Use the following extinguishing media when fighting fires involving this material:

- carbon dioxide - dry chemical - water spray

Personal Protective Equipment

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



Milano Via A.F. Stella, 5 - 20125 Tel. +39 02 67493225 Fax +39 02 67493233 cts.milano@ctseurope.com	Firenze Via L. Gordiniani, 54 - 50127 Tel. +39 055 3245014 Fax +39 055 3245078 cts.firenze@ctseurope.com	Roma Via G.Fantoli, 26 - 00149 Tel. +39 06 55301779 Fax +39 06 5592891 cts.roma@ctseurope.com	Trevi (PG) Via Popoli, 15 - 06039 Tel. +39 0742 381027 Fax +39 0742 386413 cts.trevi@ctseurope.com	Napoli Via delle Puglie, 228 int.4 - 80143 Tel. +39 081 7592971 Fax +39 081 7593118 napoli@ctseurope.com	Gravina di Catania (CT) Via A. Gramsci, 3/A - 95030 Tel. +39 095 7441565 Fax +39 095 7442954 cts.catania@ctseurope.com
--	---	--	---	---	---

Special Procedures

Use water spray to control heat.

6. ACCIDENTAL RELEASE MEASURES

Personal Protection

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

Procedures

Floor may be slippery, use care to avoid falling. Eliminate all ignition sources. Ventilate the area. Avoid breathing powders. Use water spray to reduce powders formation to a minimum. Transfer spilled material to suitable containers for recovery or disposal.

CAUTION: keep spills and cleaning runoff out of municipal sewers and open bodies of water.

7. HANDLING AND STORAGE

Storage Conditions

The maximum recommended storage temperature is 60°C / 140°F. Material can burn; limit indoor storage to approved areas equipped with automatic sprinklers. Avoid all ignition sources.

Handling Procedures

Monomer vapors can be evolved when material is heated during processing operations. For required types of ventilation see SECTION 8-Exposure Controls/Personal Protection. Static charges can accumulate: use bonding and grounding between transfer equipment and receiving containers and for any other operations capable of generating static electricity.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Limit Information

No.		CAS REG NO.	WEIGHT (%)
1	Acrylic polymer	Not Hazardous	98 -100
2	Toluene.....	108-88-3	0.8 MAX
3	Ethyl acrylate.....	140-88-5	0.05 MAX
4	Individual residual monomers	Not Required	< 0.2

Comp No.	Units	ROHM AND HAAS		ACGIH		MAK (Germany)	
		TWA	STEL	TWA	STEL	WERT	KAT.
1		None	None	None	None		
2	ppm	50a	75a	50a	None	50	b
3	ppm	5a	15a	5	15	5c	l
4		d	d	d	d		

- a Risk of skin-absorption
- b Maximum Limit: Category II,2
- c Risk of sensitization
- d Not required



Respiratory protection

A respiratory protection program meeting OSHA 1910.134 and ANSI Z88.2 requirements or equivalent must be followed whenever workplace conditions warrant a respirator's use. None required if airborne concentrations are maintained below the exposure limit listed in Exposure Limit Information. Air-purifying respirators should be equipped with NIOSH approved (or equivalent) organic vapour cartridges and N95 filters. If oil mist is present, use R95 or P95 filters.

Eye protection

Use suitable safety glasses (ANSI Z87.1 or equivalent).

Hand protection

Cotton or canvas gloves.

Engineering Controls (Ventilation)

Use local exhaust ventilation with a minimum capture velocity of 150 ft/min. (45 m/min.) at the point of dust or mist 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 using this material should be equipped with an eyewash facility.

9. PHYSICAL AND CHEMICAL PROPERTIES

• Appearance:	Transparent granules
• Colour:	colourless
• Odour:	acrylic odour
• pH:	not applicable
• Viscosity:	not applicable
• Specific gravity (Water =1):	0,66 g/cm ³ Bulk density
• Vapor density (Air=1):	not applicable
• Vapor pressure:	not applicable
• Melting point:	no data
• Boiling point:	not applicable
• Solubility in water:	Insoluble
• Percent volatility:	0 - 2 %
• Evaporation rate (BAc = 1):	not applicable

10. STABILITY AND REACTIVITY

Stability

This material is considered stable. However, avoid temperatures above 260 °C/500 °F.

Hazardous Decomposition Products

Thermal decomposition may yield acrylic monomers.



C.T.S. S.R.L.
Via Piave, 20/22 - 36077 Altavilla Vicentina (VI) - Italy
Tel. +39 0444 349088 - Fax +39 0444 349039
www.ctseurope.com - cts.italia@ctseurope.com



Milano Via A.F. Stella, 5 - 20125 Tel. +39 02 67493225 Fax +39 02 67493233 cts.milano@ctseurope.com	Firenze Via L. Gordiniani, 54 - 50127 Tel. +39 055 3245014 Fax +39 055 3245078 cts.firenze@ctseurope.com	Roma Via G.Fantoli, 26 - 00149 Tel. +39 06 55301779 Fax +39 06 5592891 cts.roma@ctseurope.com	Trevi (PG) Via Popoli, 15 - 06039 Tel. +39 0742 381027 Fax +39 0742 386413 cts.trevi@ctseurope.com	Napoli Via delle Puglie, 228 int.4 - 80143 Tel. +39 081 7592971 Fax +39 081 7593118 napoli@ctseurope.com	Gravina di Catania (CT) Via A. Gramsci, 3/A - 95030 Tel. +39 095 7441565 Fax +39 095 7442954 cts.catania@ctseurope.com
--	---	--	---	---	---

Hazardous Polymerization

Product will not undergo polymerization.

Incompatibility

Avoid contact with the following substances: acids, bases, oxidizing agents.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Oral LD50 - rat: > 5000 mg/kg
Dermal LD50 - rabbit: > 3000 mg/kg
Skin Irritation - rabbit: slight irritation
Eye Irritation - rabbit: irritation

12. ECOLOGICAL INFORMATION

No applicable data.

13. DISPOSAL CONSIDERATIONS

Procedures

For disposal, this product must be sent to an authorised landfill or to a suitable plant of incineration observing local regulations.

Waste Code

571 29 waste of other rigid plastic materials.

14. TRANSPORT INFORMATION

Classification for ROAD and Rail transport (ADR/RID):

Not regulated (Not dangerous for transport)

Classification for SEA transport (IMO-IMDG):

Not regulated (Not dangerous for transport)

Classification for AIR transport (IATA/ICAO):

Not regulated (Not dangerous for transport)

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 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 polymer	Not Hazardous	
2	Toluene.....	108-88-3	2036259
3	Ethyl acrylate.....	140-88-5	2054388
4	Individual residual monomers	Not Required	

Indication of Danger

Xi – Irritating

Risk phrases

R36 – Irritating to eye.

Safety Phrases

S26 – In case of eye contact, wash immediately and plentifully with water and consult a doctor.

16. OTHER INFORMATION

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

Ratings are based on Rohm and Haas guidelines and are intended for internal use.

ABBREVIATIONS:

- ACGIH = American Conference of Governmental Industrial Hygienists
- OSHA = Occupational Safety and Health Administration
- TLV = Threshold Limit Value
- PEL = Permissible Exposure Limit
- TWA = Time Weighted Average
- STEL = Short -Term Exposure Limit
- BAc = Butyl acetate
- I Bar denotes a revision from previous MSDS in this area.

The information provided in this Safety Data Sheet relates only to the specific material identified. Rohm and Haas Company believes that such information is accurate and reliable at the date of this publication. However it is not to be considered a guarantee or an assurance, expressed or implied, of information accuracy, reliability, or completeness. Rohm and Haas Company urges persons receiving this information to check its reliability and its completeness for different product applications.