RJ Watson Inc

Safety Data Sheet

1. Product and company identification

Product Name **RJW Sealant 700 – Part A**

Internal Code(s) 276061

Product Type Amine-Modified Polyurethane Polyol

Product Use Two-Component Elastomeric Sealant

Manufacturer/Supplier

RJ Watson, Inc.
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U.S.A.

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Telephone

For 24-Hour Emergency Response Information
Call ChemTel: (800) 255-3924 (U.S./Canada)
+1-813-248-0585 (International)

For Other Product or Technical Information
Call RJ Watson, Inc.: (716) 901-7020

2. Hazards identification

Product Form Liquid

OSHA/HCS status This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Hazard Category Classification:

Acute Toxicity - Oral	4	Acute Toxicity - Oral; LD_{50}: 300 – 2000 mg/kg
Skin Corrosion / Irritation	1B	Corrosive to Skin
Eye Damage / Eye Irritation	1	Serious Eye Damage / Irreversible Effects on the Eye
Skin Sensitization	1	Skin Sensitizer
Specific Target Organ Toxicity – Repeated Exposure	2	Gastrointestinal Tract, Liver, Spleen and Testes
Hazardous to the Aquatic Environment, Short-Term (Acute)	3	Short-Term (Acute) Aquatic Hazard
Hazardous to the Aquatic Environment, Long-Term (Chronic)	3	Long-Term (Chronic) Aquatic Hazard

GHS Pictogram(s):

Signal Word: **DANGER**

Hazard Statement:

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H373	May cause damage to organs (gastrointestinal tract, liver, spleen, testes) through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.

Precautionary Statements:

Prevention:	P264	Wash hands and exposed skin thoroughly after handling.
	P270	Do not eat, drink or smoke when using this product.
	P260	Do not breathe dusts / mists / vapors.
	P280	Wear protective gloves / protective clothing / eye protection / face protection.
	P272	Contaminated work clothing should not be allowed out of the workplace.
	P273	Avoid release to the environment.
Response:	P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
	P301 + P317	IF SWALLOWED: Get medical help.
	P330	Rinse mouth.
	P302 + P361 + P354	IF ON SKIN: Take off immediately all contaminated clothing. Immediately rinse with water for several minutes.
	P363	Wash contaminated clothing before reuse.
	P302 + P352	IF ON SKIN: Wash with plenty of water and soap.
	P333 + P317	If skin irritation or rash occurs: Get medical help.
	P362 + P364	Take off contaminated clothing and wash it before reuse.
	P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
	P316	Get emergency medical help immediately.
	P305 + P354 + P338	IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P317	Get medical help.
	P319	Get medical help if you feel unwell.
Storage:	P405	Store locked up.
Disposal:	P501	Dispose of contents / container to a disposal facility in accordance with all local / national / international regulations.

3. Composition/Information on ingredients

Ingredient name	CAS number	WT %
Calcium Carbonate	1317-65-3	**40.0 – 55.0%**
Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-(2-aminomethylethyl)-.omega.-(2-aminomethylethoxy)-	9046-10-0	**20.0 – 35.0%**
2-Propanone, reaction products with 5-amino-1,3,3-trimethylcyclohexanemethanamine, reduced	156105-38-3	**5.0 – 10.0%**
Quartz (fine fraction)	14808-60-7	**0.04 – 0.55%**

4. First aid measures

Eye contact

Small amounts of this material in the eyes can cause irreversible tissue damage and blindness. In case of contact with the eyes, rinse immediately with plenty of clean, low-pressure water, occasionally lifting the upper and lower eyelids. Remove any contact lenses and continue rinsing. Get medical attention. Continue rinsing eye during transport to hospital or emergency medical facility. If eye irritation persists, consult a specialist.

Skin contact

Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty. Immediately remove excess chemical and contaminated clothing. Thoroughly rinse and wash contaminated skin with large amounts of water for at least fifteen minutes. Get medical attention. Thoroughly clean contaminated clothing before reuse; discard contaminated leather goods (shoes, belts, wallets, etc.).

Inhalation

Remove the affected individual into fresh air and keep the person calm. If breathing becomes labored or difficult, provide artificial respiration or oxygen by

	trained personnel and get medical attention. Do not leave the victim unattended. If symptoms persist, call a physician.
Ingestion	Keep respiratory tract clear. Wash out mouth with water. Do NOT induce vomiting. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. Remove dentures, if present. Get immediate medical attention.
Notes to physician	Treat symptomatically. Treatment should be supportive and based on the judgment of the physician in response to the reaction of the patient.

5. Fire-fighting measures

Flammability properties of the product	**Flash Point:** > 135°C (> 275°F) **Flash Point Method Used:** ASTM D93 – Pensky-Martens Closed Cup **Flammable Limits in Air (Lower - % by volume):** Not Determined **Flammable Limits in Air (Upper - % by volume):** Not Determined
Extinguishing media	
Suitable	Water spray, dry extinguishing media, carbon dioxide, alcohol-resistant foam. If possible, water should be applied as a fine spray from a fogging nozzle
Not suitable	High-pressure water jet (may spread burning material).
Special exposure hazards	Wear self-contained breathing apparatus (SCBA) to protect from hazardous combustion products.
Hazardous combustion products	Smoke, carbon monoxide (CO), carbon dioxide (CO_2), nitrogen oxides (NO_x) and possibly other harmful gases/vapors.
Unusual Fire and Explosion Hazards	Sealed, fire-exposed containers may build up dangerous pressure, potentially resulting in explosive rupture. Keep sealed fire-exposed containers cool with water spray. Prevent fire extinguishing water from contaminating surface water or ground water systems. Prevent runoff of contaminated fire extinguishing water. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Special protective equipment for fire-fighters	Fire-fighters should wear appropriate protective equipment, including self-contained breathing apparatus and turn-out gear.

6. Accidental release measures

Personal precautions	No action shall be taken involving any personal risk or without suitable training. Clear area. Ensure adequate ventilation. Put on appropriate personal protective equipment (see section 8).
Environmental precautions	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Spill Response	Dike spillage to prevent runoff. Neutralize with acid. Soak up spills with absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust) and place in suitable, labeled containers for disposal.

7. Handling and storage

Handling	Put on appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Do not breathe dust, vapor or mist. Avoid contact with eyes, skin, and clothing. Avoid tasting or swallowing. Keep container closed when not in use. Use with adequate ventilation. Wash thoroughly after handling.
Storage	Keep in the original container or an approved alternative made from a compatible material, kept tightly sealed when not in use. Take measures to

prevent the introduction of water or atmospheric moisture. Store at room temperature in a dry place away from heat and direct sunlight. Store in accordance with all local and government regulations. Recommended storage temperature: 32 - 86°F (0 - 30°C).

8. Exposure controls/personal protection

CAS Number	Chemical Identity	Exposure Limits				
		ACGIH		OSHA		NIOSH
		TWA	STEL	PEL	STEL	REL
1317-65-3	Calcium Carbonate *(limits as total dust):* *(limits as respirable dust):*	N.E.	N.E.	15 mg/m^3 5 mg/m^3	N.E.	10 mg/m^3 5 mg/m^3
9046-10-0	Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-(2-aminomethylethyl)-.omega.-(2-aminomethylethoxy)-	N.E.	N.E.	N.E.	N.E.	N.E.
156105-38-3	2-Propanone, reaction products with 5-amino-1,3,3-trimethylcyclohexanemethanamine, reduced	N.E.	N.E.	N.E.	N.E.	N.E.
14808-60-7	Quartz *(limits as respirable dust)*:	0.025 mg/m^3	N.E.	0.1 mg/m^3	N.E.	0.05 mg/m^3

Recommended monitoring procedures

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

Engineering measures

Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Hygiene measures

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated equipment or clothing should be cleaned after each use or disposed of. Ensure that eyewash stations and safety showers are located in the work area.

Respiratory

Use a properly fitted, air-purifying or air-supplied respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Eyes

Chemical splash goggles are recommended. Wear face shield if splashing hazard exists.

Skin

Chemical resistant protective gloves are required. Suitable materials include: Butyl Rubber, Nitrile Rubber (Buna N).
Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

9. Physical and chemical properties

Physical State Liquid

Color	Black
Flash point	> 135°C (> 275°F) – ASTM D93 Pensky-Martens Closed Cup
Lower explosion limit (LEL)	Not determined
Upper explosion limit (UEL)	Not determined
Auto-ignition temperature	Not determined
Decomposition temperature	≥ 200°C (392°F)
Odor	Ammoniacal
Odor threshold	Not determined
Vapor density	Not determined
Vapor pressure	1.1997 hPa (234.4°C)
pH	10.5 (approximate)
Specific gravity	1.49
Freezing point	Not determined
Boiling point	> 200°C
Solubility in water	Partially soluble
Evaporation rate	Not determined
Partition coefficient: n-octanol/water	Not determined
Viscosity	10,000 cPs

10. Stability and reactivity

Stability	The product is stable. Hazardous polymerization is not likely to occur.
Conditions to avoid	Avoid contact with excessive heat.
Materials to avoid	Reactive or incompatible with the following materials: Strong Oxidizers, Acids, Isocyanates.
Other hazards	May present slipping hazards if spilled.
Hazardous decomposition products	Decomposition products may include the following materials: Carbon Monoxide, Carbon Dioxide, and Nitrogen Oxides.

11. Toxicological information

Acute toxicity

LD50 Oral	Rat	1239 mg/kg ATE
LD50 Dermal	Rabbit	> 3,000 mg/kg ATE
LC50 Inhalation		No data available

Potential acute health effects

Inhalation	Inhalation of vapors (especially when resin is heated) may cause irritation, nasal discharge, coughing, and discomfort in nose & throat.
Ingestion	Causes burning of mouth, throat, and stomach with abdominal and chest pain, nausea, vomiting, diarrhea, thirst, weakness, and collapse.
Skin	Extremely corrosive and destructive to tissue. Exposure symptoms include pain, excess redness and swelling with chemical burns, blister formation, and possible tissue destruction. Prolonged or repeated exposure may cause skin sensitization.
Eyes	Strong caustic effect. Eye contact may cause irreversible eye damage. Exposure symptoms include irritation, experienced as pain, with excess blinking and tear production, and seen as redness and swelling of the eye.

Potential chronic health effects

Chronic effects	Repeated or prolonged contact may cause skin sensitization.
Developmental effects	None known.
Fertility effects	None known.
Target organs	Skin; Eyes, Gastrointestinal Tract, Liver, Spleen, Testes

Over-exposure signs/symptoms

Inhalation	Irritation of mucous membranes, nose, throat, and/or lungs.
Ingestion	Irritation, burns, nausea, stomach pains
Skin	Irritation, burns, blister formation, redness, itching, swelling
Eyes	Irritation, redness, tearing; blurred vision; loss of vision
Medical conditions aggravated by over-exposure	Pre-existing skin and respiratory conditions.

Irritation / Corrosion	Skin:	Corrosive; destructive to tissue with direct contact.
	Eyes:	May cause irreversible eye damage with direct contact.
Sensitization	Skin:	May cause sensitization by skin contact.
Specific Target Organ Toxicity – Single Exposure		Not classified for STOT-SE
Specific Target Organ Toxicity – Repeated Exposure		May cause damage to organs (gastrointestinal tract, liver, spleen, testes) through prolonged or repeated exposure.

Carcinogenicity Classification

Ingredient name		
Quartz, fine fraction (CAS # 14808-60-7):	IARC	Group 1 (Carcinogenic to humans); via inhalation
	NTP	Known to be a human carcinogen
	OSHA	Not regulated as a carcinogen
	EU	Category 1A (H350: May cause cancer (via inhalation))

12. Ecological information

Aquatic Toxicity:

Acute Aquatic Toxicity: Harmful to aquatic life. *

Fish: Rainbow Trout (Oncorhynchus mykiss); 96 Hours; LC50: >100 mg/L*

Aquatic invertebrates: Water Flea (Daphnia magna); 48 Hours; EC50: >56 mg/L*

Algae: Algae (Pseudokirchneriella subcapitata); 72 Hours; EC50: >22 mg/L*

Chronic Aquatic Toxicity: Harmful to aquatic life with long lasting effects. *

**Note: The product has not been tested. The statement has been derived from the properties of the individual components.*

Persistence and biodegradability

Biodegradation:	No data available on product; not anticipated to be readily degradable
Bioaccumulation:	An accumulation in aquatic organisms is not to be expected.

13. Disposal considerations

Waste disposal	The generation of waste should be avoided or minimized wherever possible. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

14. Transport information

NOTE: The data provided in this section is regarding this product, RJW Sealant 700, as packaged in 2 x 0.75L plural-component cartridges containing 0.75L of Part A and 0.75L of Part B

(1.50L combined volume per cartridge).

International transport regulations

Regulatory information	UN/NA number	Proper shipping name	Classes/*PG	Reportable Quantity (RQ)
CFR	UN2922	Corrosive liquid, toxic, n.o.s. (Polyoxypropylenediamine, Isophorone Diisocyanate); LIMITED QUANTITY	8 (6.1); PGII	N/A.
TDG	UN2922	Corrosive liquid, toxic, n.o.s. (Polyoxypropylenediamine, Isophorone Diisocyanate); LIMITED QUANTITY	8 (6.1); PGII	N/A.
IMO/IMDG	UN2922	Corrosive liquid, toxic, n.o.s. (Polyoxypropylenediamine, Isophorone Diisocyanate); LIMITED QUANTITY	8 (6.1); PGII	N/A.
IATA	UN2922	Corrosive liquid, toxic, n.o.s. (Polyoxypropylenediamine, Isophorone Diisocyanate)	8 (6.1); PGII	N/A.

*PG : Packing group

15. Regulatory information

US regulations

HCS Classification When used for its intended purpose, this material is classified as hazardous in accordance with OSHA 29CFR 1910.1200.

U.S. Federal regulations

SARA Title III, Section 311/312 Classification
Immediate (Acute) health hazard
Chronic (Long Term) health hazard

SARA Title III, Section 313 - Supplier Notification
This product contains the following toxic chemical(s) subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986, and Subpart C-Supplier Notification Requirement of 40 CFR Part 372.

No chemicals present above the *de minimus* limit.

CERCLA RQ: None

SARA Section 302 Extremely Hazardous Substances
None required.

State regulations

Massachusetts RTK Substances
Quartz (CAS # 14808-60-7)

New Jersey RTK Hazardous Substances
Quartz (CAS # 14808-60-7)

Pennsylvania RTK Hazardous Substances
Quartz (CAS # 14808-60-7)

California Prop. 65: WARNING: This product contains the following chemical(s) known to the State of California to cause cancer:

None

Note: The Quartz (Crystalline Silica) in this product is contained in the liquid matrix and is not airborne. As such, it does not meet the definition of "Silica, crystalline (airborne particles of respirable size" in the California Proposition 65 List.

California Prop. 65: WARNING: This product contains the following chemical(s) known to the State of California to be a reproductive toxin:

None

International regulations

Chemical inventories	United States inventory (TSCA 8b) - All components are listed or exempted.

16. Other information

Hazardous Material Information System III (U.S.A.)	Health: 3 Flammability: 1 Physical hazards: 0 Personal Protection: X

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. HMIS® ratings are to be used with a fully implemented HMIS® program.

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