



Health	3
Fire	0
Reactivity	0
Personal Protection	

SECTION 1 – MATERIAL IDENTIFICATION

- A) Trade / Material Name
- B) Description
- C) Product Code(s)
- D) Manufacturer Name
- E) Manufacturer Information
- Two-Component Epoxy Hardener Adhesive hardener RTB-988-B Ronass Chemical Producing Co. #95 Ghaem Magham Avenue, Tehran, Iran Tel: (+98-21) 88307248-9 Fax: (+98-21) 88305965 www.ronass.com | info@ronass.com July 17, 2018
- F) MSDS Preparation Date

SECTION 2 – HAZARDOUS INGREDIENTS

Name	Percentage	Max. Legal Limit
Organic Solvents	Max. 51% (By Weight)	Max. 50% (By Weight)
Active Materials	Max. 48% (By Weight)	N.A.

SECTION 3 - PHYSICAL DATA

A) Appearance and Odor	Coloured Liquid Light Odor
B) V.O.C.	
C) Viscosity	80000 ± 20000 cps
D) pH Range	5.5 – 7
E) Water Solubility	No
F) Specific Gravity	1.65 ± 0.05 gr/cm3
G) Flash Point	
H) Boiling Point	
I) Melting / Freezing Point	N.A.

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SECTION 4 – STABILITY AND REACTIVITY DATA

MATERIAL IS STABLE | HAZARDOUS POLYMERIZATION CANNOT OCCUR

A) Chemical Incompatibilities	Water, oil and inorganic compounds
B) Conditions to Avoid	Excessive heat, sparks, open flame, high voltage power lines /
	switchboards

- C) Hazardous Decomposition Product(s)
- D) Hazardous Polymerization Product(s)

SECTION 5 – LEAK AND DISPOSAL PROCEDURES

None

- A) Spill and / or Leak Procedures
- B) Waste Management / Disposal

C) Large Spills

A) Summary of Risks

Contain and collect with absorbent material In accordance with state and provincial regulations

Remove all sources of ignition; ventilate area; Contain spill with inert absorbent, or mop up

Contact may cause eye irritation; prolonged contact with skin

Carbon Monoxide, Carbon Dioxide, Organic Solvent Vapor

SECTION 6 – FIRST AID MEASURES

THIS PRODUCT IS NOT CONSIDERED A CARCINOGEN BY OSHA, NTP, IARC

		can cause irritation; excessive inhalation can cause dizziness and headache
B)	Medical Conditions That May Be Aggravated by Contact	Pre-existing disorders of the liver or kidneys, eyes, skin, or respiratory system may be aggravated by exposure to this product
C)	Primary Entry Route(s)	Eye contact; skin contact; respiratory and ingestion systems
D)	Acute Effect(s)	Eye / skin irritation; dizziness; headache and nausea from excessive inhalation
E)	Chronic Effect(s)	Aspiration of product into lungs (due to vomiting) can cause chemical pneumonitis, which can be fatal
F) Signs and Symptoms of Overexposure		
	✤ Eye Contact	Redness; tearing; blurred vision
	 Skin Contact 	Redness; blistering
	 ♦ Inhalation 	Dizziness; headache
	✤ Ingestion	Nausea; cramps; diarrhea
G) First Aid		
	✤ Eye Contact	Flush with plenty water for 10 minutes; get medical advice
	✤ Skin Contact	Wash with soap and cool water; seek medical attention if irritation persists
	 Inhalation 	Move to an area with fresh air
	 ✤ Ingestion 	Do not induce vomiting; call a physician immediately for instructions

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SECTION 7 – FIRE EXTINGUISHING MEASURES

- A) Flash Point and Method
- B) Autoignition Temperature
- C) Flammable Limits in Air
- D) Extinguishing Media
- E) Special Firefighting Procedures
- F) Unusual Fire and Explosion

N.A. 12% (LEL)

25% (UEL)

Water fog; dry chemical; CO2 foam; sand Protective equipment and clothing; respirator

Do not spray near open flame, hot engines or devices which may spark

Lingering vapors given off by the product's aerosol spray may support combustion; adequate ventilation is essential when using this product around potential sources of ignition

SECTION 8 – SPECIAL PROTECTION INFORMATION

A)	Personal Protective Equipment	
	✤ Goggles	

Gloves

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- ✤ Respirator
- **B) Workplace Considerations**
 - ✤ Fire Extinguisher
 - Ventilation
- C) Safety Stations
 - ✤ Eye Contact
 - Contaminated Equipment and Clothing

Safety glasses; eye wash station available

Rubber Gloves

Respirator mask in confined areas or emergency situations

Always keep a number of ABC fire extinguishers and sand buckets within the vicinity of the workplace or the storage area Provide sufficient mechanical (general and/or local) ventilation to maintain exposure below TLV

Eye wash stations Wash before reusing

SECTION 9 – STORAGE AND HANDLING

- A) Storage Conditions
- B) Special Handling / Storage
- C) Shelf Life

Keep away from sources capable of igniting product container or packaging; store in well ventilated, cool and dry conditions Handle with care; store indoors

At Least 12 Months



SECTION 10 – TRANSPORTATION INFORMATION

A) Shipping Classification	3.3
B) WHMIS Classification	С
C) UN Number	1866
D) Packaging	1 L (Metal Container)

THIS PRODUCT MSDS PROVIDES HEALTH AND SAFETY INFORMATION. THE PRODUCT IS TO BE USED IN APPLICATIONS CONSISTENT WITH COMPANY LITERATURE AND PRODUCT DIRECTIONS. INDIVIDUALS HANDLING THIS PRODUCT SHOULD HAVE ACCESS TO THIS INFORMATION. FOR ANY OTHER USES, EXPOSURES SHOULD BE EVALUATED SO THAT APPROPRIATE HANDLING PRACTICES AND TRAINING PROGRAMS CAN BE ESTABLISHED TO ENSURE SAFE WORKPLACE OPERATIONS. PLEASE CONTACT RONASS CHEMICAL PRODUCING CO. FOR FURTHER INFORMATION.

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