



Health	3
Fire	0
Reactivity	0
Personal Protection	

SECTION 1 – MATERIAL IDENTIFICATION

- B) Description
- C) Product Code(s)
- D) Manufacturer Name
- E) Manufacturer Information
- Two-Pack Polyurethane Hardener

Polyurethane Hardener (Aliphatic Isocyanate Solution)

RTB-848-B

ne 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

F) MSDS Preparation Date

July 17, 2018

SECTION 2 – HAZARDOUS INGREDIENTS

Name
Organic Solvents
Active Materials

Percentage Max. 50% (By Weight) Max. 50% (By Weight) Max. Legal Limit Max. 50% (By Weight) N.A.

SECTION 3 - PHYSICAL DATA

Appearance and Odor	Clear Liquid Light Odor
V.O.C.	Max. 40%
Viscosity	Max. 13 Seconds (ASTM CUP 4)
pH Range	5.5 – 7
Water Solubility	No
Specific Gravity	0.94 ± 0.03 gr/cm3
Flash Point	5°C
Boiling Point	110°C
Melting / Freezing Point	N.A.
	V.O.C. Viscosity pH Range Water Solubility Specific Gravity Flash Point Boiling Point

(CA

Œ



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

Carbon Monoxide, Carbon Dioxide, Organic Solvent Vapor

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

Contact may cause eye irritation; prolonged contact with skin

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 Ma Aggravated by Contact	y Be 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 Ove	rexposure
	 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

nass.com



SECTION 7 – FIRE EXTINGUISHING MEASURES

A) Flash Point and Method	5°C	
B) Autoignition Temperature	N.A.	
C) Flammable Limits in Air	12% (LEL)	25% (UEL)
D) Extinguishing Media	Water fog; dry chemical; CO2 foam; sand	
E) Special Firefighting Procedures	Protective equipment and clothing; respirator	
F) Unusual Fire and Explosion	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)	A) Personal Protective Equipment		
	*	Goggles	Safety glasses; eye wash station available
	*	Gloves	Rubber Gloves
	*	Respirator	Respirator mask in confined areas or emergency situations
B)	Wo	rkplace Considerations	
	*	Fire Extinguisher	Always keep a number of ABC fire extinguishers and sand buckets within the vicinity of the workplace or the storage area
	*	Ventilation	Provide sufficient mechanical (general and/or local) ventilation to maintain exposure below TLV
C)	C) Safety Stations		
	*	Eye Contact	Eye wash stations
	*	Contaminated Equipment and Clothing	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

onass.com



SECTION 10 – TRANSPORTATION INFORMATION

A) Shipping Classification	3.3
B) WHMIS Classification	С
C) UN Number	1866
D) Packaging	10 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.

www.ronass.com