



Health	3
Fire	0
Reactivity	0
Personal Protection	

SECTION 1 – MATERIAL IDENTIFICATION

A) Trade / Material Name Two-Component Epoxy Marine Hardener

B) Description **Epoxy Marine Hardener**

C) Product Code(s) RTB-1133-R-B

D) Manufacturer Name Ronass Chemical Producing Co.

E) Manufacturer Information #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 Percentage Max. Legal Limit

Organic Solvents Max. 75% (By Weight) N.A. **Active Materials** Max. 25% (By Weight) N.A.

SECTION 3 - PHYSICAL DATA

Coloured Liquid | Light Odor A) Appearance and Odor

B) V.O.C. Max. 20%

Max. 15 Seconds (ASTM CUP 4) C) Viscosity

D) pH Range 5.5 - 7E) Water Solubility No

F) Specific Gravity $0.88 \pm 0.02 \text{ gr/cm}3$

5°C G) Flash Point H) Boiling Point 110°C **Melting / Freezing Point** N.A.













SECTION 4 - STABILITY AND REACTIVITY DATA

MATERIAL IS STABLE | HAZARDOUS POLYMERIZATION CANNOT OCCUR

Water, oil and inorganic compounds A) Chemical Incompatibilities

B) Conditions to Avoid Excessive heat, sparks, open flame, high voltage power lines /

switchboards

C) Hazardous Decomposition Product(s) Carbon Monoxide, Carbon Dioxide, Organic Solvent Vapor

D) Hazardous Polymerization Product(s) None

SECTION 5 – LEAK AND DISPOSAL PROCEDURES

A) Spill and / or Leak Procedures Contain and collect with absorbent material

B) Waste Management / Disposal In accordance with state and provincial regulations

C) Large Spills Remove all sources of ignition; ventilate area; Contain spill with

inert absorbent, or mop up

SECTION 6 - FIRST AID MEASURES

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

A) Summary of Risks Contact may cause eye irritation; prolonged contact with skin

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















SECTION 7 - FIRE EXTINGUISHING MEASURES

A) Flash Point and MethodB) Autoignition TemperatureN.A.

C) Flammable Limits in Air
D) Extinguishing Media
E) Special Firefighting Procedures
12% (LEL)
Water fog; dry chemical; CO2 foam; sand
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) Personal Protective Equipment

❖ Goggles Safety glasses; eye wash station available

Gloves Rubber Gloves

Respirator Respirator mask in confined areas or emergency situations

B) Workplace 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) Safety Stations

❖ Eye Contact Eye wash stations
❖ Contaminated Equipment and Wash before reusing

Clothing

SECTION 9 – STORAGE AND HANDLING

A) Storage Conditions Keep away from sources capable of igniting product container or packaging; store in well ventilated, cool and dry conditions

B) Special Handling / Storage Handle with care; store indoors

C) Shelf Life At Least 12 Months



















SECTION 10 – TRANSPORTATION INFORMATION

A) Shipping Classification 3.3 С B) WHMIS Classification C) UN Number 1866

D) Packaging 5 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.

