

SAFETY DATA SHEET

ROYMAL, INC.

Date Printed: 4/3/2020

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Section I-Product and Company Identification

Product Name : AQUEOUS ANTI-FOG COATING

Product Code : #47950

Recommended Use: Coatings

SDS Revision Date: 04/03/20

Company Identification:

ROYMAL, INC.

475 SUNAPEE STREET

NEWPORT, NH 03773

Information Phone: (603) 863-2410

Emergency Phone: (800) 424-9300

Section II-Hazards Identification

According to Regulation 2012 OSHA Hazard Communication Standard
29 CFR 1910.1200

Classification of the product:

Skin Corrosion/Irritation: 2 Skin

Eye Damage/Irritation: 2A

Specific Target Toxicity:3 (single exposure; irritating to respiratory system)

Label Elements:

Pictogram:



Signal Word: Warning

Hazard Statement:

H319 Causes serious eye irritation.

H315 Cause skin irritation.

H335 May cause respiratory irritation.

Precautionary Statements (Prevention):

P280 Wear protective gloves and clothing/eye and face protection.

P271 Use only outdoors or in a well ventilated area.

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P260 Do not breathe dust/gas/mist/vapors.

P202 Do not handle until all safety precautions have been understood.

P264 Wash thoroughly with plenty of soap and water after handling.

Precautionary Statements (Response):

P312 Call a Poison Center or doctor/physician if you feel unwell.

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P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses; if present and easy to do. Continue rinsing.
P304+P340 IF INHALED: Remove person to fresh air.
P303+P352 IF ON SKIN OR HAIR: Wash with plenty of soap and water.
P308+P311 If exposed: Call POISON CENTER or physician.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P337+P311 If eye irritation persists: Call POISON CENTER or physician.
P362+P364 Take off contaminated clothing and wash before reuse.
P370+P378 In case of fire: Use water spray, dry powder, foam or CO2.

Precautionary Statements (Storage):

P233 Keep container tightly closed.
P404 +P235 Store in a well ventilated place. Keep cool.
P405 Store in secure location.

Precautionary Statements (Disposal):

P501 Dispose of contents to hazardous/special waste collection point.

Hazards not otherwise classified:

According to Regulation 1994 OSHA Hazard Communication Standard
29 CFR 1910.1200

Emergency Overview:

Irritating to the eyes and skin.
INGESTION MAY CAUSE GASTRIC DISTURBANCES.
Use with local exhaust ventilation.
Avoid contact with the skin, eyes and clothing.
Wear a NIOSH certified organic vapour respirator.
Wear chemical resistant protective gloves.
Wear NIOSH certified chemical goggles.
Wear protective clothing.
Eye wash fountains and safety showers must be easily accessible.

OHSA/HCS status:

This material is considered non-hazardous by OSHA Hazard Communication Standard
29 CFR 1910.1200

Potential acute health effects:

Inhalation: Use with local exhaust ventilation.
Skin: Avoid contact with skin.
Eye: Avoid contact with eyes.
Ingestion: Virtually non toxic after a single ingestion.

Carcinogenicity:

No carcinogenic substances as defined by IARC, NTP and/or OSHA.

Section III-Composition/Information on Ingredients

Hazardous Component(s)	CAS#	EINECS#	% by Wt.
ISOPROPANOL	67-63-0	200-667-7	1.5

Section IV-First Aid Measures

Eye Contact:

In case of contact, flush eyes with plenty of lukewarm water. Use fingers to ensure that the eyelids are separated and that the eye is being irrigated. Get medical attention if irritation develops.

Skin Contact:

In case of skin contact, wash affected areas with soap and water. Immediately remove contaminated clothing and shoes. Call physician

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if irritation develops or persists. Thoroughly clean shoes before reuse.
Wash contaminated clothing before reuse.

Ingestion:

If ingested, do not induce vomiting unless directed to do so by medical personnel. Get medical attention.

Inhalation:

If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.

Section V-Fire Fighting Measures

Suitable Extinguishing Media:

Use water, foam or dry chemicals.

Special Fire Fighting Procedures:

Firefighters should be equipped with self-contained breathing apparatus to protect against potentially toxic and irritating fumes. Toxic and irritating gases/fumes may be given off during burning or thermal decomposition.

Use cold water spray to cool fire exposed containers to minimize risk of rupture.

Unusual Fire/Explosin Hazards:

Vapors are heavier than air and may travel a considerable distance to source of ignition and flashback. Vapors or fumes may form explosive mixture with air.

Hazardous Thermal Decomposition Products:

In case of fire, may produce hazardous decomposition products such as carbon monoxide, carbon dioxide, (dense) black smoke, aldehydes, organic acids, nitrogen oxides, ammonia and amines.

Section VI-Accidental Release Measures

Spill and Leak Procedures:

Contain Spill. If spilled in an enclosed area ventilate. Wear proper personal protective clothing and equipment. Do not flush liquid in public sewer, water systems or surface waters. Recover as much as possible and absorb remainder with inert material. Place into labeled containers and store in safe location for proper disposal. Wash spilled area with soap and water.

Section VII-Handling and Storage

Storage Temperature:

Minimum: 41°F (5°C)

Maximum: 104°F (40°C)

Handling:

Avoid eye contact, repeated or prolonged skin contact or inhalation of aerosol, mist or vapors. Wash thoroughly after handling. Use in well ventilated areas.

Storage:

Keep containers closed when not in use. Do not store in open, unlabeled or mislabeled containers. Product is not reactive or degraded by moisture, however protect from moisture contamination for performance purposes.

Section VIII-Exposure Controls/Personal Protection

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Occupational Exposure Limits

ISOPROPANOL

OSHA PEL: 400PPM; 8 HOURS

ACGIH TLV: 200PPM; 8 HOURS

Engineering Controls:

Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Personal Protection:

Eyes:

Chemical safety goggles or safety glasses with side shields.

Skin:

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.

Respiratory:

Use a properly fitted, air purifying or air fed 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 safe working limits of the known respirator.

Hand:

Permeation resistant gloves, Butyl rubber gloves, Nitrile rubber gloves or Neoprene gloves.

Additional Protective Measures:

Employees should wash their hands and face before eating, drinking or using tobacco products. Educate and train employees in safe use and handling of this product. Emergency showers and eye wash stations should be available. Store separate from food products.

Section IX-Physical and Chemical Properties

Boiling Point: 212°F (100°C)

Freezing Point: 32°F (0°C)

Flash Point: >200F

Vapor Density: HEAVIER THAN AIR

Solubility in Water: MISCIBLE IN ALL PROPORTIONS

Specific Gravity: 1.0088

Density: 8.4 lb/gal

Appearance and Odor: MILKY LIQUID WITH MILD AMMONIA ODOR.

pH: GREATER THAN 7.

Coating VOC (Actual): 0.2 lb/gal

Coating VOC (Less water): 1.62 lb/gal

Section X-Stability and Reactivity

Stability:

This product is stable under normal storage and use conditions.

Hazardous Polymerization:

Will not occur.

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Incompatibility:

Strong oxidizing agents, excessive heat.

Hazardous Decomposition Products:

Decomposition of the dry solids may generate irritating vapors, carbon dioxide and carbon monoxide.

Section XI-Toxicological Information

Toxicity Data: #47950

Acute Oral Toxicity:

LD50: >5000 mg/kg (Rat)

Acute Inhalation Toxicity:

LC50: Not Determined, 4 hour (Rat)

Acute Dermal Toxicity:

LD50: Not Determined, 4 hour (Rat)

Skin Irritation:

Rabbit, Irritating.

Eye Irritation:

Rabbit, Irritating.

Sensitization:

Dermal: non-sensitizer

(Guinea pig, OECD Test Guideline 406)

Repeated Dose Toxicity:

Repeated oral uptake did not cause substance related effects.

Section XII-Ecological Information

Ecological Data: #47950

Additional Ecotoxicological Remarks:

No negative ecological effects are expected.

Acute and Prolonged Toxicity to Fish:

LC50: >100 mg/l (*Leuciscus idus*), 96 hours

Acute Toxicity to Aquatic Invertebrate:

EC50: >100 mg/l *Daphnia magna*, 48 hours

Toxicity to Aquatic Plants:

EC50: No data available.

Toxicity to Microorganisms:

The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

Section XIII-Disposal Considerations

Waste Disposal Method:

Dispose of in accordance with Federal, State and Local regulations.

Section XIV-Transportation Information

Land Transport (DOT): Non-regulated

Sea Transport (IMDG): Non-regulated

Air Transport (ICAO/IATA): Non-regulated

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Section XV-Regulatory Information

U.S. Federal Regulations (TSCA):

TSCA:

All components of this product are included on the TSCA Chemical Inventory or are not required to be listed on the TSCA Inventory.

SARA Title III Section 313:

This product contains the following substance(s) subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act (40 CFR 372).

** NO REPORTABLE QUANTITIES OF HAZARDOUS INGREDIENTS ARE PRESENT **

SARA Title III 312 Hazard Category (40 CFR 311/312):

Acute Health: Yes
Chronic Health: No
Fire: No
Release of Pressure: No
Reactive: No

Other Regulations:

Canadian WHMIS:

Not Available

Canadian Environmental Protection Act (CEPA):

Not Available

Section XVI-Other Information

HMIS Rating:

Health: 1
Flammability: 0
Reactivity: 0
PPE: B

Prepared By: MICHAEL W. FROST

Contact: SDS Department

Information Phone: (603) 863-2410

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Manufacturer Disclaimer:

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