

# EUROPEAN MATERIAL SAFETY DATA SHEET:

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## SECTION 1 PRODUCT IDENTIFICATION

Product Name: **Hydromer Anti-Fog Coating Solution # 2009-68-2B  
(AKA: 2266-188B , 2098-SG61B)**

Chemical Name: Aliphatic Polyisocyanate / Solvent mixture

Synonyms: Polymeric Hexamethylene Dioscyanate / MIBK mixture

Chemical Family: Aliphatic Polyisocyanate / Solvent mixture

## SECTION 2 COMPOSITION AND INGREDIENTS

<u>INGREDIENT</u>	<u>CAS #</u>	<u>EINECS #</u>
Polymeric Diisocyanate	28182-81-2	
Methyl Isobutyl Ketone	108-10-1	203-550-1

## SECTION 3 IDENTIFICATION OF POTENTIAL HAZARDS

General: Flammable, avoid contact with eyes and skin and avoid breathing vapors.  
Keep away from heat, sparks, flame, moisture and amines

Skin Contact: Frequent or prolonged contact may irritate and cause dermatitis.

Eye Contact: Irritating and potentially harmful, avoid contact with eyes

Inhalation: Avoid breathing vapor

## SECTION 4 FIRST AID MEASURES

Ingestion – do NOT induce vomiting; give one to two cups of milk or water to drink. Never give anything by mouth to an unconscious or convulsing person. Immediately call a physician.

Inhalation – if inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Skin contact – in case of contact wash skin with soap and water, remove contaminated clothing immediately, for severe exposures get under a safety shower and seek medical attention

Eye contact – in case of eye contact, immediately flush with plenty of water for at least 15 minutes. Refer person to a physician or ophthalmologist for immediate follow up.

## **SECTION 5 FIRE FIGHTING MEASURES**

Fire extinguishing media, use water spray, alcohol foam, dry chemical, or carbon dioxide.

Firefighters should wear self contained breathing apparatus. Evacuate non essential personnel.

During a fire HDI vapors and other irritating, highly toxic gases may be generated by thermal

Decomposition or combustion. Closed container may explode when exposed to extreme heat.

## **SECTION 6 ACCIDENTAL RELEASE MEASURES**

Evacuate non essential personnel and remove any potential sources of ignition.

Ventilate area and use water spray to reduce vapors. Dike or impound spilled material. Pour a solution of Union Carbides Tergitol TMN-10 (20%) and water or use a solution comprised of 93% water, 6% concentrated ammonia, and 2% detergent.

Take up with sand or other non-combustible absorbent material and place into container for later disposal. Dispose of with accordance to all applicable environmental regulations.

## **SECTION 7 HANDLING AND STORAGE**

Store in a dry, well-ventilated, flammable liquid storage area or cabinet.

Maximum temperature 50° C. Shelf life (unopened container) is 12 months. A nitrogen blanket is recommended for opened containers. If container is exposed to extreme heat it can be Pressurized and possibly rupture explosively.

## **SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION**

Use protective equipment (gloves, safety glasses, respirator, and clothing) when handling. Use only in a well ventilated area.

## **SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

Melting Point:	NA
Boiling Point:	237 – 243 F (Methyl Isobutyl Ketone)
Specific gravity:	< 1
Flash Point {Closed Cup}	61° F {16.1° C}
Auto ignition Temp:	858° F {448 ° C (Methyl Isobutyl Ketone)}
Flammable limits:	LEL 1.2 UEL 8.0 (Methyl Isobutyl Ketone)
Appearance and Odor:	Clear, colorless liquid with a characteristic odor
Solubility in Water:	Insoluble slowly reacts with water to liberate CO2 gas.

## SECTION 10 STABILITY AND REACTIVITY

Indefinitely stable when stored in a cool, dark, dry environment. Hazardous polymerization may occur; keep away from moisture, amines, strong bases, alcohols, metal compounds and surface active ingredients.

## SECTION 11 TOXICOLOGICAL INFORMATION

Eye Effects:	Severe irritant capable of causing corneal injury
Oral Toxicity:	<b><i>Toxic- Do not ingest</i></b>
Skin Irritation:	<b><i>May cause some irritation</i></b>
Mucous Membrane:	<b><i>May cause some irritation</i></b>
Mutagenicity:	<i>N/A</i>
Sensitization:	possible
Photo irritation:	<i>N/A</i>

## SECTION 12 ECOLOGICAL INFORMATION

Fish Toxicity: Not available

## SECTION 13 DISPOSAL

Dispose of in accordance with all government requirements and prudent regard for minimizing environmental impact.

## SECTION 14 TRANSPORT

Proper shipping name: Polyisocyanate (UN/NA Number NA3082)  
Methyl Isobutyl Ketone UN 1993.  
Flammable liquid class III, Packing group III

## SECTION 15 REGULATORY INFORMATION

OSHA status: This product is hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200. Both ingredients of this mixture are on the TOSCA inventory.

## SECTION 16 OTHER INFORMATION

Origin (source):	<b><i>Hydromer Inc.</i></b>
Origin (Country):	<b><i>USA</i></b>
Tariff Number:	
Shelf Life:	<b><i>1 Year (Unopened Container)</i></b>
Use Area:	Anti-fog coating
Use Level:	100%

### **NOTE:**

Hydromer Inc. believes that the information contained in this material safety data sheet is accurate as of the date first mentioned in such data sheet.

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