Material Safety Data Sheet

Revision Date: *29-Aug-2012* **Revision Number:** *2*

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name **SUPER SPEC HP ALIPHATIC ACRYLIC URETHANE GLOSS CATALYST**

Product Code **P7484**

Manufacturer
Benjamin Moore & Co.
101 Paragon Drive
Montvale, NJ 07645
Phone: 201-573-9600
www.benjaminmoore.com

Emergency Telephone Number(s)
CHEMTREC: 800-424-9300

2. COMPOSITION INFORMATION ON COMPONENTS

Hazardous Components

Chemical Name	CAS-No	Weight % (max)
Hexane, 1,6-diisocyanato-, homopolymer	28182-81-2	100
Hexane, 1,6-diisocyanato-	822-06-0	0.5

3. HAZARDS IDENTIFICATION

Emergency Overview

WARNING

Respiratory sensitizer. Irritating to respiratory system. May cause permanent lung damage. Skin sensitizer. May cause skin irritation and/or dermatitis. Irritating to eyes.

Closed containers may rupture if exposed to extreme heat or when contents have been contaminated with water.
IMPORTANT: Designed to be mixed with other components. Mixture will have hazards of all components.

Appearance liquid **Odor** slight

OSHA Regulatory Status This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Potential Health Effects

Principal Routes of Exposure Eye contact, skin contact and inhalation.

Acute Effects

Eyes	Moderately irritating to the eyes.
Skin	Skin sensitizer. May cause skin irritation and/or dermatitis.
Inhalation	Respiratory sensitizer. May cause allergic respiratory reaction. May cause permanent lung damage.
Ingestion	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Chronic Effects Avoid repeated exposure. Repeated contact may cause allergic reactions in very susceptible persons.

See Section 11 for additional Toxicological information.

Aggravated Medical Conditions Asthma and other respiratory disorders. Skin allergies. Eczema.

HMIS **Health:** 2* **Flammability:** 1 **Reactivity:** 1 **PPE:** -

HMIS Legend
0 - Minimal Hazard
1 - Slight Hazard
2 - Moderate Hazard
3 - Serious Hazard
4 - Severe Hazard
* - Chronic Hazard
X - Consult your supervisor or S.O.P. for "Special" handling instructions.

Note: The PPE rating has intentionally been left blank. Choose appropriate PPE that will protect employees from the hazards the material will present under the actual normal conditions of use.

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer, has choosen to provide them. HMIS® ratings are to be used only in conjunction with a fully implemented HMIS® program by workers who have received appropriate HMIS® training. HMIS® is a registered trade and service mark of the NPCA. HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

4. FIRST AID MEASURES

General Advice	If symptoms persist, call a physician. Show this safety data sheet to the doctor in attendance.
Eye Contact	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.
Skin Contact	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. If skin irritation persists, call a physician.
Inhalation	Move to fresh air. If symptoms persist, call a physician. If not breathing, give artificial respiration. Call a physician immediately
Ingestion	Clean mouth with water and afterwards drink plenty of water. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Consult a physician.
Notes To Physician	Treat symptomatically
Protection Of First-Aiders	Use personal protective equipment

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Foam, dry powder or water. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Protective Equipment And Precautions For Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Specific Hazards Arising From The Chemical

Closed containers may rupture if exposed to fire or extreme heat. Cool heated containers with water to minimize the risk of rupture. Apply water from a safe distance. The reaction between water and hot diisocyanate can be vigorous.

Sensitivity To Mechanical Impact No

Sensitivity To Static Discharge No

Flash Point Data

Flash Point (°F)	442
Flash Point (°C)	228
Flash Point Method	Setaflash closed cup

Flammability Limits In Air

Lower Explosion Limit	Not available
Upper Explosion Limit	Not available

NFPA **Health:** 2 **Flammability:** 1 **Instability:** 1 **Special:** Not Applicable

NFPA Legend
0 - Not Hazardous
1 - Slightly
2 - Moderate
3 - High
4 - Severe

The ratings assigned are only suggested ratings, the contractor/employer has ultimate responsibilities for NFPA ratings where this system is used.

Additional information regarding the NFPA rating system is available from the National Fire Protection Agency (NFPA) at www.nfpa.org.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions

Use personal protective equipment. Avoid contact with skin, eyes and clothing. Ensure adequate ventilation..

Environmental Precautions

Prevent further leakage or spillage if safe to do so. Do not allow material to contaminate ground water system. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system. Local authorities should be advised if significant spillages cannot be contained.

Methods For Clean-Up Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. Clean contaminated surface thoroughly.

Other Information None known

7. HANDLING AND STORAGE

Handling Avoid breathing vapors, spray mists or sanding dust. Use only in area provided with appropriate exhaust ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid contact with skin, eyes and clothing.

Storage Keep container tightly closed in a dry and well-ventilated place. Keep away from heat. Keep in properly labeled containers.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Limits

Hazardous Components

Chemical Name	ACGIH	OSHA
Hexane, 1,6-diisocyanato-, homopolymer	N/E	N/E
Hexane, 1,6-diisocyanato-	0.005 ppm - TWA	N/E

Legend
ACGIH - American Conference of Governmental Industrial Hygienists Exposure Limits
OSHA - Occupational Safety & Health Administration Exposure Limits
N/E - Not Established

Engineering Measures Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Eye/Face Protection Safety glasses with side-shields.. If splashes are likely to occur, wear:. Face-shield.

Skin Protection Protective gloves and impervious clothing.

Respiratory Protection In case of insufficient ventilation wear suitable respiratory equipment.. When spraying the product or applying in confined areas, wear a properly fitted NIOSH approved respirator specific for isocyanates.

Hygiene Measures Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use. Wash thoroughly after handling. When using do not eat, drink or smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	liquid
Odor	slight
Density (lbs/gal)	9.7 - 9.8
Specific Gravity	1.16 - 1.18
pH	Not available
Viscosity (centistokes)	3000
Evaporation Rate	Not available
Vapor Pressure	Not available

9. PHYSICAL AND CHEMICAL PROPERTIES

Vapor Density	Not available
Wt. % Solids	95 - 100
Vol. % Solids	95 - 100
Wt. % Volatiles	0 - 5
Vol. % Volatiles	0 - 5
VOC Regulatory Limit (g/L)	Not available
Boiling Point (°F)	Not available
Boiling Point (°C)	Not available
Freezing Point (°F)	-60
Freezing Point (°C)	-51
Flash Point (°F)	442
Flash Point (°C)	228
Flash Point Method	Setaflash closed cup
Upper Explosion Limit	Not available
Lower Explosion Limit	Not available

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended storage conditions.
Conditions To Avoid	moisture, incompatible materials, Temperatures above 350 °F.
Incompatible Materials	water, Strong bases, amines, alcohols, copper, copper alloys.
Hazardous Decomposition Products	Carbon oxides. Nitrogen oxides (NOx). Hydrogen cyanide. Isocyanate. Isocyanic acid.
Possibility Of Hazardous Reactions	Contact with moisture, incompatible materials, or extreme temperatures can cause polymerization.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product
Repeated or prolonged exposure to organic solvents may lead to permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling vapors may be harmful or fatal.

Product LD50 Oral: >10,000 mg/kg (rat)
Product LD50 Dermal: > 5000 mg/kg (Rabbit)

Component

Hexane, 1,6-diisocyanato-, homopolymer
LD50 Oral: > 5000 mg/kg (Rat)
LD50 Dermal: > 5000 mg/kg (Rabbit)

LC50 Inhalation (Vapor): 390 - 453 mg/m^3 (Rat, 4 hr.)
Sensitization: skin - positive (guinea pig)

Hexane, 1,6-diisocyanato-
LD50 Oral: 710 µL/kg (Rat)
LD50 Dermal: 570 µL/kg (Rabbit)
LC50 Inhalation (Vapor): 60 mg/m^3 (Rat, 4 hr.)
Sensitization: Respiratory sensitizer
skin - positive (guinea pig)

Chronic Toxicity

Carcinogenicity
There are no known carcinogenic chemicals in this product above reportable levels.

Sensitization:
skin - positive (guinea pig)

12. ECOLOGICAL INFORMATION

Ecotoxicity Effects

Product

Acute Toxicity to Fish
No information available

Acute Toxicity to Aquatic Invertebrates
No information available

Acute Toxicity to Aquatic Plants
No information available

Component

Acute Toxicity to Fish
No information available

Acute Toxicity to Aquatic Invertebrates
No information available

Acute Toxicity to Aquatic Plants

Hexane, 1,6-diisocyanato-, homopolymer
EC50: >1000 mg/L (Green algae (Scenedesmus subspicatus), 72 hrs.)

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method Dispose of in accordance with federal, state, provincial, and local regulations. Local requirements may vary, consult your sanitation department or state-designated environmental protection agency for more disposal options..

Empty Container Warning Emptied containers may retain product residue. Follow label warnings even after container is emptied.

14. TRANSPORT INFORMATION

DOT Not regulated

ICAO / IATA Contact the preparer for further information.

IMDG / IMO Contact the preparer for further information.

15. REGULATORY INFORMATION

International Inventories

United States TSCA Yes - All components are listed or exempt.
Canada DSL Yes - All components are listed or exempt.

Federal Regulations

SARA 311/312 hazardous categorization

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

SARA 313
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical Name	CAS-No	Weight % (max)
Hexane, 1,6-diisocyanato-	822-06-0	0.5

This product may contain trace amounts of (other) SARA reportable chemicals. Contact the preparer for further information.

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)
This product contains the following HAPs:

Chemical Name	CAS-No	Weight % (max)
Hexane, 1,6-diisocyanato-	822-06-0	0.5

This product may contain trace amounts of (other) HAPs chemicals. Contact the preparer for further information.

State Regulations

California Proposition 65

This product may contain small amounts of materials known to the state of California to cause cancer or reproductive harm.

State Right-to-Know

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Louisiana	Rhode Island
Hexane, 1,6-diisocyanato-	X	X			

Legend
X - Listed

16. OTHER INFORMATION

WARNING! If you scrape, sand, or remove old paint, you may release lead dust. LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a NIOSH approved respirator to control lead exposure. Clean up carefully with a HEPA vacuum and a wet mop. Before you start, find out how to protect yourself and your family by contacting the National Lead Information Hotline at 1-800-424-LEAD or log on to www.epa.gov/lead.

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End of MSDS