Safety Data Sheet

1. Product and Company Identification

Product Name: **Ultralane® 708, Ultralane® 708 White, and Ultralane® 708 Black**
Material Uses: Pre-mixed & frozen Adhesive, Sealant, Coating or Encapsulant
(M)SDS#: 708-20210115
Validation Date: Jan-15-2021
Supplier/Manufacturer: Specialty Polymers & Services, Inc. (SP&S, Inc.)
27822 Fremont Court Valencia, CA 91355
Non-emergency phone number: (661) 294-1790 (7AM – 5PM PST)
E-mail: msds@spolymers.com

In case of emergency: Chemtrec (800) 424-9300 or (703) 527-3887

2. Hazards Identification

GHS CLASSIFICATION OF SUBSTANCE OR MIXTURE:

Skin sensitization:	Category 1, H317	Respiratory Sensitisation:	Category 1, H335
Skin Irritation:	Category 2, H315	Eye irritation:	Category 2A, H319
Specific Target Organ Toxicity – single exposure:	Category 3 (respiratory system), H334		

GHS LABEL ELEMENTS:

HAZARD SYMBOLS:

SIGNAL WORDS: Warning!

HAZARD STATEMENTS:

H317 May cause an allergic skin reaction
H335 May cause respiratory irritation
H315 Causes skin irritation
H319 Causes serious eye irritation
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled

PRECAUTIONARY STATEMENTS:

PREVENTION:
P202 Do not handle until all safety precautions have been read and understood.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 Wash hands thoroughly after handling.
P270 Do not eat, drink, or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves, clothing, and eye/face protection.
P285 In case of inadequate ventilation wear respiratory protection

RESPONSE:
P301+P330+P331+P312 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Call POISON CENTER and/or doctor if you feel unwell.
P303+P361+P634+P353+P352 IF ON SKIN (or hair): Take off immediately all contaminated clothing and wash before reuse. Rinse skin with water/shower. Wash with plenty of soap and water.
P333+P313 If skin irritation or rash occurs: Get medical attention.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313 IF exposed or concerned: Get medical attention.
P391 Collect spillage.

STORAGE: P403+P233 Store in a well-ventilated place. Keep container tightly closed.

DISPOSAL: P501 Dispose of contents and containers in accordance with local, regional, and international regulations.

Precautionary statements are listed according to the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS) – Annex III

See toxicological information (section 11)
General Information: Read entire SDS for a more thorough evaluation of the hazards

3. Composition / Information on Ingredients

Name	CAS Number	%
Hexamethylene-diisocyanate, homopolymer	28182-81-2	30% -60%
Glycerol, propoxylated	25791-96-2	13% - 30%
Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis[oxirane]	25036-25-3	13% - 30%
hexamethylene diisocyanate	822-06-0	0.1% - 1%

Amounts specified are typical and do not represent a specification. Remaining components are proprietary, non-hazardous, and/or present at amounts below reportable limits. The specific chemical identity and/or exact percentage (concentration) of components has been withheld as a trade secret

4. First Aid Measures

Eye Contact:	Check for and remove any contact lenses. Immediately flush eyes for at least 15 minutes with running water. Hold eyelids apart to ensure rinsing of the entire eye surface and lids with water. Get immediate medical attention.
Skin Contact:	In case of contact, wash affected areas with plenty of water, and soap, if available, for several minutes. Remove and clean contaminated clothing and shoes before re-use. Get medical attention if irritation occurs.
Inhalation:	Move exposed person to fresh air. If not breathing, give artificial respiration or oxygen. If breathing is difficult, transport to medical care and, if available, give supplemental oxygen. Loosen tight clothing such as a collar, tie, belt, or waistband. Get immediate medical attention.
Ingestion:	Wash out mouth with water. If swallowed dilute by giving two (2) glasses water to drink. Do not induce vomiting until direct to do so by medical personnel. Never give anything by mouth to an unconscious person. Get immediate medical attention.
Note to physician:	No specific treatment. Treat symptomatically. Call poison control center if large quantities were ingested.

5. Fire-Fighting Measures

Flash point:	>94°C (>201.2°F)
Hazardous Thermal Decomposition Products:	Decomposition products may include the following materials: carbon dioxide, carbon monoxide, halogenated compounds, and other oxides.
Extinguishing Media:	Carbon dioxide, foam, dry chemical, water spray as suitable for the surrounding fire.
Special Exposure Hazards:	Promptly isolate the scene by removing all persons from the vicinity of the fire. No actions shall be taken involving any personal risk or without suitable training.
Special Protective equipment for fire-fighters:	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. Accidental Release Measures

Personal Precautions:	No actions shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering area. Do not touch or walk through spilled material. Avoid breathing vapor or mist and provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).
Environmental Precautions:	Avoid dispersal of spilled material and runoff that leads to contact with soil, waterways, drains, and sewers. Inform the relevant authorities if the product has caused environmental pollution.
Methods of Clean Up:	Stop leak if without risk. Move containers from spill area. Approach spill from up wind if possible. Prevent spill from entering sewers, rivers and other water courses, basements, or confined areas. Wash into effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material (e.g. sand, earth, vermiculite, or diatomaceous earth) and place in container for disposal according to local regulations. Dispose of only using a licensed waste disposal contractor. Contaminated absorbent material may

pose the same hazard as the spilled product. Note: see section 1 for emergency contact information.

7. Handling and Storage

Handling: Wear appropriate personal protective equipment (see Section 8) when handling. Eating, drinking, and smoking should be prohibited in areas where chemical are handled, stored, or processed. Workers should wash hands and face before eating, drinking, and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Persons with a history of skin sensitization problems should be employed in processes where this material is used. Keep in the original container or a suitable alternate made from a compatible material. Keep all containers tightly closed when not in use. Empty containers retain product residue and should be disposed of properly. Do not reuse empty containers for other purposes or to hold other materials.

Storage: Store in accordance with local regulations. **This is a frozen product, store in original containers, at -40°C or colder to maintain shelf-life**. Keep away from incompatible materials (see Section 10) and food and drink. Keep all containers tightly closed when not in use and tightly re-seal after use. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

8. Exposure Controls / Personal Protection

Ingredient	Exposure Limits
hexamethylene diisocyanate	ACGIH, TWA 0.005 ppm

Recommended Monitoring Procedures: If this product contains ingredients with exposure limits, personal, workplace, atmospheric, or biological monitoring may be required to determine the effectiveness of the ventilation system or other control measures and/or to determine whether it is necessary to use respiratory protective equipment. It will also be necessary to reviewed national guidance documents for determining how to handle and relevant Hazardous Substances

Engineering measures: No special ventilation requirements are necessary for this product. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation, or other engineering controls to keep worker exposure below the recommended or statutory limits

Hygiene measures: Wash hands, forearms, and face thoroughly after handling any chemical products, before eating, smoking, and using the lavatory and at the end of the work period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal Protection

Respiratory: No personal respiratory equipment normally required. In case of inadequate ventilation, wear respiratory protection designed for organic vapours. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Hands: Chemical Resistant, impervious gloves that comply with an approved safety standard should be worn at all times when handling chemical products if a risk assessment indicates that this is necessary. Consider the parameters specified by the glove manufacturer(s) and check gloves during use to ensure they are retaining their protective properties.

Eyes: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, or dusts. If contact is possible use chemical splash googles unless a higher degree of protection is required.

Skin: Personal Protective equipment for the body should be selected based on the task being performed and the risks involved. Typical protective equipment includes non-absorbent lab coats, disposable protective sleeves, coats, or whole body suits depending on the volume of material being handled. Consult with a safety specialist to determine the appropriate level of protection for your task.

Environmental Exposure Controls: Emissions from ventilation or work processes should be checked to ensure they comply with the requirements of environmental regulations. In some cases, fume scrubbers, filters, or engineering modifications to the process equipment could be necessary to reduce emissions to acceptable levels.

9. Physical and Chemical Properties

Appearance:	Transparent Blue, Opaque White, or Opaque Black	Odor	slight
Boiling Point:	Not determined	Freezing Point:	Not determined
Flash Point:	>94°C (>201.2°F) closed cup	pH:	Not determined

Auto-ignition Temperature:	Not determined	Flammable Limits:	Not determined
Vapor Pressure:	< 0.001 mm Hg at 20°C (68 °F)	Water Solubility:	Slowly reactive with water
Specific Gravity:	~0.96	Vapor Density:	>1 (Air = 1)
Evaporation Rate:	<1 (butyl acetate =1)	VOC:	<10 g/ L (estimated)
Viscosity:	about 8,000 – 15,000 centipoise		

10. Stability and Reactivity

Chemical Stability:	This product is stable, under normal conditions of storage and use, hazardous reactions will not occur.
Hazardous Polymerization:	Under normal conditions of storage and use, hazardous polymerization will not occur.
Conditions to Avoid:	High temperatures and exposure to strong oxidizing agents, acids, and bases
Hazardous Decomposition	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. Toxicological Information

Acute Toxicity

Product/Ingredient Name	Test	Endpoint	Species	Result
Hexamethylene-diisocyanate, oligomers		LD50 Dermal	Rabbit	>5000 mg/kg
Glycerol, propoxylated	OECD 402	LD50 Dermal	Rats, male and female	>2000 mg/kg
Hexamethylene-diisocyanate	OECD 402	LD50 Dermal	Rats, male and female	>7000 mg/kg

Irritation / Corrosion

Product/Ingredient Name	Test	Species	Result
Hexamethylene-diisocyanate, oligomers		Rabbit	Eye – mild irritant
Hexamethylene-diisocyanate, oligomers		Rabbit	Skin – mild irritant

Sensitizer

Product/Ingredient Name	Test	Species	Result
Hexamethylene-diisocyanate, oligomers	OECD 406 Skin Sensitization	Guinea Pig	Sensitizing
Hexamethylene-diisocyanate, oligomers	Eye exposure	Guinea Pig	Not sensitizing

Mutagenicity

Product/Ingredient Name	Test	Result
Hexamethylene-diisocyanate, oligomers	Invivo, bacteria, metabolic activation	Negative

Conclusion/ Summary: the weight of scientific evidence indicates that the components of this product are not genotoxic.

Carcinogenicity

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed human carcinogen by IARC, ACGIH, NTP or OSHA.

Reproductive Toxicity

Product/Ingredient Name	Test	Species	Maternal Toxicity	Fertility	Developmental Effects
Not data available					

Teratogenicity

Product/Ingredient Name	Test	Species	Results
Hexamethylene-diisocyanate	OECD 414	Rats male and female	No teratogenic effects

Potential Acute Health Effects

Inhalation:	May cause irritation or asthma like symptoms
Ingestion:	No known significant effects or critical hazards.
Skin Contact:	May causes skin irritation
Eye Contact:	May cause irritation to the eyes.

Potential Chronic Health Effects

Product/Ingredient Name	Test	Endpoint	Species	Results
No Data Available				

General: Once sensitized, an allergic reaction may occur when subsequently exposed to very low levels

Target Organs:	Respiratory System – may cause irritation or asthma like symptoms with repeated unprotected exposure.
Carcinogenicity:	No known significant effects or critical hazards
Mutagenicity:	No known significant effects or critical hazards
Teratogenicity:	No known significant effects or critical hazards
Developmental Effects:	No known significant effects or critical hazards
Fertility Effects:	No known significant effects or critical hazards

12. Ecological Information

Environmental Effects: no known aquatic toxicity. Packaging & product format (small syringe size and self-curing nature if allowed to thaw) make this material unlikely to cause any damage to the environment.

Aquatic Ecotoxicity

Product/Ingredient Name	Test	Endpoint	Exposure	Species	Result
Hexamethylene-diisocyanate, oligomers		Acute EC50	72 hours	Algae	>1000 mg/L
Hexamethylene-diisocyanate, oligomers		Acute EC50	3 hours	Bacteria	>1000 mg/L
Hexamethylene-diisocyanate, oligomers		Acute IC0	48 hours	Daphnia	>100 mg/L
Hexamethylene-diisocyanate, oligomers		Acute IC0	96 hours	Fish	>100 mg/L
Glycerol, propoxylated	Directive 67-548/EEC, Annex V, C.1.	Acute LC50	96 hours	Golden orfe	>1000 mg/L
Glycerol, propoxylated	OECD 202	Acute IC0	48 hours	Daphnia	>100 mg/L
Glycerol, propoxylated	Directive 67-548/EEC, Annex V, C.3.	Acute EC50	72 hours	Algae	>100 mg/L
Hexamethylene-diisocyanate	Directive 67-548/EEC, Annex V, C.1.	Acute LC50	96 hours	Zebra Fish	>82.8 mg/L
Hexamethylene-diisocyanate	OECD 202	Acute IC0	48 hours	Daphnia	>89.1 mg/L
Hexamethylene-diisocyanate	Directive 67-548/EEC, Annex V, C.3.	Acute EC50	72 hours	Algae	>77.4 mg/L

Persistence and Degradability

Product/Ingredient Name	Test	Period	Result
Hexamethylene-diisocyanate, homopolymer		28 DAYS	0%
Glycerol, propoxylated		28 DAYS	1.9%

Product/Ingredient Name	Aquatic half-life	Photolysis	Biodegradability
Hexamethylene-diisocyanate, homopolymer	-	-	Not readily
Glycerol, propoxylated			Not readily

Bioaccumulative potential

Product/Ingredient Name	Log P_{ow}	BCF	Potential
No Data Available			

Other adverse effects: No known significant effects or critical hazards

Other information: BOD5: Not determined COD: Not Determined TOC: Not determined

13. Disposal Consideration

Waste Disposal Method: Disposal of this products, solutions, and by-products should at all times comply with the requirements of environmental and waste disposal legislation and any regional or local authority requirements. Dispose of surplus, non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed on untreated to the sewer system unless this is complaint with all applicable laws and regulations. Incineration by an approved and licensed contractor is the most common disposal method. Packaging materials and absorbents containing the product can typically be landfilled or incinerated. Contact local authorities to determine the proper means of disposal in your area.

14. Transport Information

DOT (US) Classification: Not regulated for transportation purposes under 49CFR in non-bulk (less than 450L) when transported by motor vehicle, rail car, or aircraft.

TDG (Canadian) Classification: Not regulated for transportation purposes when transported by road or rail.

IATA (Air): Not regulated for transportation purposes, but ships with Dry Ice to maintain the product below -40°C. Dry Ice is categorized as UN1845 and ships using Packaging Instructions 954.

15. REGULATORY INFORMATION

US Federal Regulations:

Occupational Safety and Health Act (OSHA): This product is considered to be a hazardous chemical under the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Resource Conservation and Recovery Act (RCRA): This product is not considered to be a hazardous waste under RCRA (40 CFR 261).

SARA Title III: Section 304 - CERCLA: This product does not contain chemicals regulated under Section 304 as extremely hazardous substance(s) for emergency release notification ("CERCLA" List):

SARA Title III: Section 311/312 - Hazard Communication Standard (HCS): Immediate (acute) health hazard

SARA Title III: Section 313 Toxic Chemical List (TCL): This product does not contain a toxic chemical for routine annual Toxic Chemical Release Reporting under section 313 (40 CFR 372).

TSCA Section 8(b) - Inventory Status: All chemical(s) comprising this product are listed on the TSCA inventory.

TSCA Section 12(b) - Export Notification: This product does not contain chemicals which are subject to Section 12(b) export notification:

State Regulations:

California Proposition 65: WARNING! This product contains a chemical currently on the California list of Known Carcinogens and Reproductive Toxins:

Benzene, CAS# 71-43-2, Concentration: Trace (<0.01%)

International Regulations:

REACH Status (EC 1907/2006): This material has been registered, pre-registered, or is otherwise exempt from registration under REACH.
REACH Annex XIV (SVHC): No listed components as of validation date
Reach Annex XVIII (Restrictions on the manufacture, placing on the market & use of certain dangerous substances, mixtures, and articles): No list components as of validation date.

WHMIS: Class D-2B: Material causing other toxic effects.

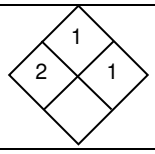
International Lists:

Australia Inventory (AICS):	all components are listed or exempt	Malaysia Inventory (EHS register):	not determined
Canadian Inventory (CEPA-DSL):	all components are listed or exempt	New Zealand Inv. of Chem. (NZIoC):	not determined
China Inventory (IECSC):	all components are listed or exempt	Philippines Inventory (PICCS):	all components are listed or exempt
Japan Inventory (ENCS):	all components are listed or exempt	Swiss Inventory (CH INV)	all components are listed or exempt
Korea Inventory (ECL):	all components are listed or exempt	Taiwan Inventory (CSNN/ TCSI)):	not determined

16. OTHER INFORMATION

Hazardous Material Information System (HMIS) - USA	
Health	2*
Flammability	1
Physical Hazards	1
Personal Protection**	C

National Fire Protection Association (USA):



* chronic hazard if unprotected
**suggested minimum personal protection equipment. End user must determine appropriateness of these suggestions for their applications and usage conditions.

Reason Issued: update
Prepared By: Preston White **Approved By:** Chris Meyer Title: Vice President

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IN ALL CASES, IT IS THE RESPONSIBILITY OF THE USER TO DETERMINE THE APPLICABILITY OF SUCH INFORMATION AND RECOMMENDATIONS AND THE SUITABILITY OF PRODUCTS FOR THE USER'S PARTICULAR PURPOSE(S).

THIS PRODUCT MAY PRESENT HAZARDS AND SHOULD BE USED WITH CAUTION. WHILE CERTAIN HAZARDS ARE DESCRIBED IN THIS PUBLICATION, NO GUARANTEE IS MADE THAT THESE ARE THE ONLY HAZARDS THAT EXIST.

The product(s) has not been tested for, and is therefore not recommended for, uses for which prolonged contact with mucous membranes, abraded skin, or blood is intended; or for uses for which implantation within the human body is intended.