HTS Chemicals
SAFETY DATA SHEET

1. IDENTIFICATION:

PRODUCT NAME: MCU HG

RECOMMENDED USE: Decorative coating/sealer for various substrates.

DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET:
Company:
HTS Chemical
4151 E 96th Street Suite B
Indianapolis, IN 46240
(909)945-5530

INFOTRAC (24-hr/7 days): 1-800-535-5053
Outside USA: Call collect 1-352-323-3500
For Medical Emergency: Call 1-800-535-5053
CN109479

Other Identification: Aliphatic Isocyanate

2. HAZARDS IDENTIFICATION:

Classification of the substance or mixture:
Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Acute Tox. 4 H332 Harmful if inhaled.
Skin Sens. 1 H317 May cause an allergic skin reaction.
STOT SE 3 H335 May cause respiratory irritation.

Label Elements
Pictogram:

Signal Word: Danger

Hazard Statements:
H332 Harmful if inhaled
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled
H317 May cause an allergic skin reaction
H 335 may cause respiratory irritation

Precautionary statements:
P260 Do not breathe dust/fume/gas/mist/vapors/spray
P284 In case of inadequate ventilation wear respiratory protection
P280 Wear protective gloves/protective clothing/eye protection/face protection
P304+P340 If inhaled: remove victim to fresh air and keep at rest in a position comfortable for breathing
P302+P352 If on skin: Wash with plenty of water
P333+P313 If skin irritation or rash occurs: Get medical advice/attention
P403+P233 Store in a well-ventilated place. Keep container tightly closed
P501 Dispose of contents/container in accordance with local/regional/national/international regulations

Hazard description:

CAUTION! Contains Isocyanates. Harmful if inhaled. May cause skin, eye and respiratory tract irritation. Possible sensitizer. Reacts with water, alcohols, based and amines and releases large amounts of carbon dioxide gas.

3. COMPOSITION/INFORMATION ON INGREDIENTS:

CAS Number	Content (weight %)	Chemical Name
28182-81-2	>80.0%	Homopolymer of HDI
822-06-0	0.1-0.3%	Hexamethylene-1,6-Diisocyanate
N/A	>10.0 %	Proprietary Blend

4. FIRST AID MEASURES:

General Advice:
Remove contaminated clothing

If Inhaled:
Remove the affected individual into fresh air and keep the person calm. Assist in breathing if necessary. Immediate medical attention required.

If on the skin:
Wash affected areas thoroughly with soap and water. Immediate medical attention required.

If in the eyes:
In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water. Immediate medical attention required.

If swallowed:
Rinse mouth and them drink plenty of water. Do not induce vomiting. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions. Immediate medical attention required.

Most Important Symptoms/effects:
No further information available.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:
Water, dry extinguishing media, carbon dioxide, foam

Hazards during fire-fighting:
Nitrous gases, fumes/smoke, isocyanate, vapor

Advice for fire-fighters:
Protective equipment for fire-fighting:
Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures
Clear area. Ensure adequate ventilation. Wear suitable personal protective clothing and equipment.

Environmental precautions:
Do not discharge into drains/surface waters/groundwater.

Methods and material for containment and cleanup:
Dike spillage. For small amounts: Absorb isocyanate with suitable absorbent material. Shovel into open container. Do not make container pressure tight. Move container to a well-ventilated area.

7. HANDLING AND STORAGE

Precautions for safe handling:
General advice: Mix thoroughly before use. If bulging of drum occurs, transfer to well ventilated area, puncture to relieve pressure, open vent and let stand for 48 hours before resealing.

Protection against fire and explosion: No explosion proofing necessary.

Conditions for safe storage:
General advice: Formation of CO2 and build up of pressure possible. Keep container tightly closed and in a well-ventilated place. Outage of containers should be filled with dry inert gas at atmospheric pressure to avoid reaction with moisture.

Suitable materials for containers: Carbon steel, High density polyethylene, low density polyethylene, stainless steel

Storage temperature: 50-95F, protect against moisture

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Components with occupational exposure limits

Hexamethylene-1,6-	OSHA	CLV 0.02 ppm
Diisocyanate (HDI)	ACGIH	TWA value 0.005 ppm

Advice on system design: Provide local exhaust ventilation to maintain recommended PEL

Personal Protective Equipment

Respiratory protection:
For situations where the airborne concentrations may exceed the level for which an air purifying respirator is effective, or where the levels are unknown or Immediately Dangerous to Life and Health, use NOISH-certified full face piece pressure demand self-contained breathing apparatus (SCBA) or a full face piece pressure demand supplied-air respirator (SAR) with escape provisions. When atmospheric levels may exceed the occupational exposure limit, NIOSH-certified air-purifying respirators equipped with an organic vapor sorbent and particulate filter can be used as appropriate precautions and change out schedules are in place.

Hand protection:
Chemical resistant protective gloves, suitable materials, chloroprene rubber, chlorinated polyethylene, polyvinyl chloride, butyl rubber, flouroelastomer.

Eye protection:
Tightly fitting safety goggles (chemical goggles). Wear face shield if splashing hazard exists.

Body protection:
Suitable materials, saran-coated material.

General safety and hygiene measures:
Wear protective clothing as necessary to prevent contact. Eye wash fountains and safety showers must be easily accessible. Observe the appropriate PEL value. Wash soiled clothing immediately. Contaminated equipment or clothing should be cleaned after each use or disposed of.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form:	liquid
Odor:	faint odor
Color:	colorless to light yellow
pH value:	NA
Boiling Point:	NA
Vapor pressure	0.00001 mm Hg @25C
Bulk density:	9.3 lbs./US gallon
% volatile by volume:	Negligible
Solubility in water:	not soluble, reacts slowly with water to liberate CO2 gas.

10. STABILITY AND REACTIVITY

Conditions to avoid: moisture, excessive heat

Substance to avoid: water, alcohols, strong bases, substances that react with isocyanates.

Possibility of hazardous reactions: Reacts with water, with formation of carbon dioxide. Risk of bursting. Reacts with alcohols. Reacts with acids. Reacts with alkalis. Reacts with amines. Risk of exothermic reaction. Risk of violent reaction. Risk of polymerization. Contact with certain rubbers and plastics can cause brittleness of the substance/product with subsequent loss in strength.

Hazardous decomposition products: carbon monoxide, hydrogen cyanide, nitrogen oxides, aromatic isocyanates, gases/vapors.

Corrosion to metals: No corrosive effect on metal.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects
Acute toxicity:
LD/LC50 values:
Not harmful by skin contact or if swallowed.
Harmful by inhalation. Inhalation of vapors may cause irritation of the mucous membranes of the nose, throat or trachea, breathlessness, chest discomfort, difficult breathing and reduced pulmonary function.

Hexamethylene diisocyanate

Oral	LD50	>5000 mg/kg (rat)(OECD 401)
Inhalation	LC50(4h)	400 mg/m3 (rat)(OECD 401)
Dermal	LD50	>7000 mg/kg (rat)(OECD 402)

Primary irritant effect:
On the skin: No irritating effect (OECD 404), rabbit

On the eye: No irritating effect (OECD 405), rabbit

Inhalation: may cause respiratory irritation

Additional toxicological information:
Carcinogenic categories: OSHA-Ca. Substance not listed
Sensitization: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Carcinogenicity: not considered to be a carcinogen
Mutagenicity: not considered to be genotoxic
Reproductive toxicity: not considered hazardous to the reproduction

12. ECOLOGICAL INFORMATION

Aquatic toxicity:
Is not acutely harmful to aquatic organisms

Persistence and degradability:
Not biodegradable

Bioaccumulative Potential:
Not bioaccumulable

Mobility in soil:
Adsorption to solid soil phase is not expected.

13. DISPOSAL CONSIDERATIONS

Waste disposal of substance:
Incinerate or dispose of in a licensed facility. Do not discharge substance /product into sewer system.

Container disposal:
Containers must be emptied before disposal. Dispose containers in accordance with local government guidelines.

14. TRANSPORT INFORMATION

Land transport USDOT
Not classified as a dangerous good

Sea transport IMDG
Not classified as a dangerous good

Air transport IATA/ICAO
Not classified as a dangerous good

Further Information: When in individual containers of less than the product Reportable Quantity, this material ships as non-regulated.

15. REGULATORY INFORMATION

Sara Section 312: Acute and Chronic health hazard
Section 355: Substance not listed
Section 313: CERCLA RQ 100 lbs. for hexamethylene diisocyanate

Carcinogenic categories
EPA: not listed
IARC: not listed
NTP: not listed

TSCA listing: Listed

California Prop. 65
This product does not contain any of the listed chemicals, which the state of California has found to cause cancer, birth defects or other reproductive harm.

16. OTHER INFORMATION

HMIS Rating

Health: 2 Flammability: 0 Physical hazard: 1

SDS Prepared by: Fox Valley Polymers, Inc. SDS Prepared on: 2/9/2016