

**SAFETY DATA SHEET**  
InstaCote CC PS 413, Isocyanate , Part "A"

---

**Section 1 – Product and company identification:**

Product Name: InstaCote CC PS 413, Isocyanate , Part "A"  
Multiple Parts (Yes/No): Yes

Manufactured by:

INSTACOTE, INC.  
160 C Lavoy Rd.  
Erie, MI 48133  
Phone (734) 847-5260 Fax (743) 847-9008

Validation date: January 1, 2013

**Section 2– Hazard Identification:**

Physical state: Clear Thick Liquid  
Color: Pale Yellow  
Odor: Negligible  
OSAH/HCS status: This material is classified as hazardous under OSHA Hazard Communication Standard (29 CFR 1910.1200)

Emergency overview: WARNING!

Primary Routes of Exposure: Skin Contact, Ingestion and Inhalation. Prolonged and repeated skin contact may cause irritation and burns. Sensitization is possible. Ingestion of product will cause irritation of the mouth, pharynx, esophagus and stomach. Breathing atomized vapors may cause headaches, nausea, and irritation of the nose, throat and lungs.  
Carcinogenicity: Not listed by NTP or IARC. Not regulated by OSHA.

Hazard Info (US) **Health-2** **Fire-1** **Reactivity-1** **Special- None**  
Scale 4 = extreme, 3 = high, 2 = moderate, 1 = insignificant

GENERAL INFORMATION: Read this entire MSDS for a more thorough evaluation of the hazards.

**Section 3– Composition/information on ingredients:**

Name	CAS Number	Weight %
Homopolymer of HDI	28182-81-2	≥95%
Hexamethylene-1,6-Diisocyanate	822-06-0	≤0.5%

#### **Section 4– First aid measures:**

Eye Contact: Flush eyes with a large amount of water for at least 15 minutes. Consult a physician if irritation persists.

Skin Contact: Remove contaminated clothing. Wash area with soap and water. Wash clothing prior to re-use.

Ingestion: Have individual drink 1-2 glasses of milk or water to dilute. Do not induce vomiting. Never give anything by mouth to an unconscious person. Seek immediate medical assistance.

Inhalation: Move individual to fresh air. Consult a Physician. If breathing becomes labored, administer O<sub>2</sub>.

#### **Section 5– Fire-fighting measures:**

Flash Point: 396°F, C.O.C.

Flammable Limits: Upper: Not Established Lower: Not Established

Combustion products: Carbon oxides (CO, CO<sub>2</sub>), nitrogen oxides (NO, NO<sub>2</sub>, etc.) hydrocarbons and HCN.

Extinguishing Media: Dry chemical, foam, CO<sub>2</sub> and water fog. Do not spray water into hot material; use water fog to cool surrounding fire.

Special Fire Fighting Precautions:  
Full face shield, self-contained breathing apparatus (SCBA) with full protective gear.

Special Remarks: Due to reaction with water producing CO<sub>2</sub>-gas, a hazardous build-up of pressure could result if contaminated containers are re-sealed. Containers may burst if overheated.

#### **Section 6– Accidental release measures:**

Spills/Leaks: Ventilate area and eliminate all sources of ignition. Wear appropriate protective gear (see section 8), contain spill, salvage, and clean up residue with absorbent material.

Disposal Method: Dispose in accordance with federal, state and /or local regulations. Landfill if solid, incinerate at agency approved waste-disposal facility (see section 13).

#### **Section 7– Handling and storage:**

Handling: Put on appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Avoid breathing vapor or mist. Never reuse an empty container due to residual chemical content. Decontaminate container prior to disposal. Do not heat, torch cut, weld or otherwise apply extreme heat to the metal container. Residual chemical will decompose to produce harmful vapors.

Storage: Store at temperatures between -30°F and 122°F. Shelf life under proper storage conditions is 6 months from date of receipt. Insure

drum closure to be tight. Store product in a dry environment away from strong oxidizing agents. Protect product from extremes in temperatures. Do not store in containers made of copper, copper alloy or galvanized surfaces.

### **Section 8– Exposure controls/personal protection:**

Product name:	Exposure limits:
Homopolymer of HDI (28182-81-2)	TWA: 0.5 mg/m <sup>3</sup> STEL: 1.00mg/m <sup>3</sup> (15 min)
Hexamethylene-1,6-Diisocyanate (822-06-0)	TWA: 0.005 ppm CLV: 0.02 ppm

#### **Consult local authorities for acceptable exposure limits.**

Ventilation: Ventilation is recommended. Air movement must be designed to insure turnover at all locations in work area to avoid build-up of heavy vapors.

PPE: DO NOT WEAR CONTACT LENSES when working with this product. Wear chemical goggles/safety glasses with side shields and rubber/latex gloves. Selection of items such as boots and apron will depend on the experience of the operator. Respirators are not required with the use of this product alone. Refer to the MSDS of the related component for this product. Wear respirator protection whenever a mist is generated such as spray application. Spray application in confined spaces, closed rooms, or tanks are areas where mist generation will exceed TLV or TWA. Refer to OSHA CFR29 1910.134 for recommended respiratory protection.

### **Section 9 – Physical and chemical properties:**

Appearance:	Clear Thick Liquid
Color:	Pale Yellow
Odor:	Negligible, odorless
Boiling Point:	N/A, decomposition
Flash point:	approx.. 180°C (356°F)
Lower explosion limit:	N/A
Upper explosion limit:	N/A
pH:	N/A
Freezing point:	-58°C (-74°F)
Specific Gravity:	1.140 @ 20°C (68°F) V.O.C.: 0.0 lbs./gal.
Vapor Pressure:	1.8X10 <sup>-5</sup> mm Hg@20°C (68°F)
Water Solubility:	Negligible
Autoignition temp:	N/A
Viscosity, dynamic:	150 mPa.s@ 23°C (73.4°F)
Evaporation Rate:	NA
Bulk density:	9.5 lb/gal
Molecular weight:	500 approx. for polyisocyanate
Decomp. Temp:	738°F

**Section 10 – Stability and reactivity:**

Stability/reactivity: Stable at room temperature. Reaction with water (moisture) produces CO<sub>2</sub>-gas. Exothermic reaction with material containing active hydrogen groups. The reaction becomes progressively more vigorous and can be violent at higher temperatures.

Instability: Avoid high temperatures

Materials to Avoid: Strong Acids or Strong Oxidizing Agents

Hazardous Polymerization:

May occur with contact with moisture at temperatures above 400°F and in the presence of alkalis, amines and metals.

Hazardous Decomposition Products:

Oxides of Carbon And Nitrogen, Ammonia and trace amount Hydrogen Cyanide.

**Section 11 – Toxicological information:**

Toxicology data:

Acute

Product/ingredient name	Test	Species	Result	Exposure
Homopolymer of HDI	LD50,oral	Rat	5000mg/kg	-
	LC50, aerosol	Rat	390-453mg/m <sup>3</sup>	4hrs
	RD50,	Rat	20.8mg/m <sup>3</sup>	3hrs
	LD50,dermal	Rabbit	5000mg/kg	-
	Skin Irritation	Rabbit	draize,slightly irritating	
	Eye irritation	Rabbit	draize,slightly irritating	

Sensitization: Skin sensitizer (guinea pig, maximization test -GPMT)

Repeated dose Toxicity:

3wks, inhalation:NOAEL 3.7-4.3 mg/m<sup>3</sup>, (Rat)

90ds, inhalations:NOAEL 3.3-3.4 mg/m<sup>3</sup>, (Rat)

Irritation to lungs and nasal cavity.

Mutagenicity:

Genetic toxicity in vitro: Ames- negative (Salmonella typhimurium, metabolic activation: with/without)

**Section 12 – Ecological information:**

Biodegradation: 0%, 28days, not readily biodegradable.

Product/ingredient name	Test	Species	Result	Exposure
Homopolymer of HDI	LC0	Fish	>100mg/l	96hrs
	EC0	Daphnia	>100mg/l	48hrs
	EC50	Green Algae	>1000mg/l	72hrs
	EC50	Microorganism	>1000mg/l	3hrs

**Section 13 – Disposal consideration:**

Disposal Method: Dispose in accordance with federal, state and /or local regulations. Landfill if solid, incinerate at agency approved waste-disposal facility.

Empty container precaution:

Never reuse an empty container due to residual chemical content. Decontaminate container prior to disposal. Do not heat, torch cut, weld or otherwise apply extreme heat to the metal container. Residual chemical will decompose to produce harmful vapors.

**Section 14– Transportation information:**

Regulatory information	UN number	Proper shipping name	Class	PG	Additional information
DOT-classification	NA3082	Other regulated Substances, liquid, N.O.S. (contains Hexamethylene-1,6-diisocyanate	9	III	Reportable quantities 20,000lbs

IMDG-Classification not-regulated

IATA-Classification not-regulated

**Section 15– Regulatory information:**

OSHA Hazcom Standard Rating: Hazardous  
 Us. Toxic Substances Control Act: Listed on the TSCA Inventory

US. EPA CERCLA Hazardous Substances (40 CFR 302)  
Components: None

SARA Section 311/312 Hazard Categories:  
 Acute health hazard, chronic health hazard, reactivity hazard

US. EPA emergency planning and community right-to-know act (EPCRA) SARA Title III sections; 302 Extremely hazardous Substance and 313 Toxic chemicals;  
Components: None

US. EPA Resources conservation and recovery act (40CFR 261)

Massachusetts, New Jersey, Pennsylvania right to know (see section 3)

Name	CAS Number	Weight %
Homopolymer of HDI	28182-81-2	≥95%
Hexamethylene-1,6-Diisocyanate	822-06-0	≤0.5%

SAFETY DATA SHEET  
CC PS 413, ISO Part” A”  
January 1, 2013

California Prop. 65:

To best of our knowledge, 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.

**Section 16– Other information:**

The handling of HDI and/or monomeric HDI requires appropriate protective measures referred to in this MSDS. These products are therefore recommended only for use in industrial or trade (commercial) applications. They are not suitable for use in Do-it-yourself applications.

Contact person: Thomas J. Nachtman  
Telephone: 734-847-5260  
MSDS Number: CC PS 413 Part A  
Version Date: 1/01/13  
Report Version: 1.1

This version replaces all previous versions.

END