

Material Safety Data Sheet

I. Product name and manufacturer identification

Name of chemical product: PU ADHESIVE MATERIAL
Product No.: D1 HS code :39095000
Name of manufacturer or supplier: INSTAGREEN S.A. Address: 75 m oeste Iglesia Ladrillo, San Francisco, Goicoechea, San Jose. 10802
Emergency telephone number/fax: Tel : +506 4000-1988

II. Ingredients identification information:

Mixed substance: Diphenyl Methane, toluene diisocyanate pre-polymer, polyether
Chemical property: not classified as flammable.
Ingredient of hazardous substance: Diphenyl Methane toluene diisocyanate

III. Hazard identification:

The worst hazard effect	Health hazard effect: Not cause irritation to skin, eyes, respiratory system.
	Physical and chemical hazard: Not advisable
	Environmental impact: no such information
Main symptoms: Irritation of nose, eyes and respiratory system, skin allergic reaction by contact, qualm and vomiting by inhalation, dry and cracking skin.	
Product hazard classification:	

IV. First aid measures

First aid measures of different exposures: Skin contact: 1.Flush with soap and water in case of direct contact; 2. Remove contaminated clothing and wash affected area with soap and water. 3 Seek medical attention immediately. Eye contact: 1. Flush eyes with water for at least 15 minutes and hold the eyelids open from time to time; 2. Seek medical attention immediately. Inhalation: 1. Remove to fresh air; 2. If breathing has stopped, give artificial respiration. 3. Seek medical attention immediately. Ingestion: 1. Never give anything by mouth if victim is rapidly losing consciousness or unconscious or convulsing; 2. Completely clean mouth with water, do not induce vomiting; 3. Have victim drink about 300ml of water to dilute material in stomach; 4. Seek medical attention immediately.
The worst symptoms and hazard effects: irritation, fatigue, fragility, headache, qualm, sleepiness, muscle weakness, skin drying and cracking.
Protection of first abider: wear impervious rubber glove, anti-poison mouth mask to avoid contact with contaminated materials.

V. Fire fighting measures

Applicable extinguishing agent: Carbon dioxide, ABC chemical dry powder, foam, etc.
Special hazards that may be suffered: the gas and air may produce inflammable or explosive mixture.
Special fire fighting procedure: cool containers exposed in fire with water fog.
Special protection equipment for firefighter: Firefighters should wear protective clothing resistant to chemical products and self-contained breathing apparatus.

VI. Accidental release measures



Notices to individuals: 1. Deny entry to unauthorized personnel before hazard area is completely cleaned.2. Clean-up personnel should be trained and qualified.3. Clean-up personnel should appropriate protective equipment.
Notice on environment 1. Ventilate the hazard area; 2. Extinguish or remove all fire sources; 3 Advise government, public security, health care and environmental protection departments.
Clean-up methods: 1. Do not contact released materials; 2. Prevent entry into sewer, ditch or enveloped space; 3. Try to stop release on safety conditions; 4. Absorb it with oil cloth in case of a small amount of release; 5. Block released material with sand and mud; 6. Affected material and released material has the same hazardous level, which must be placed appropriate containers properly marked. Flush released area with water; 7. Seek help from fire fighting organization in case of a large amount of release; 8. Use spraying water to disperse steam and protect personnel conducting stop; personnel should wear appropriate protective equipment.

VII. Handling and storage

Storage: Keep container completely sealed, and store it in a well-ventilated place. Keep container free from moisture. If container is contaminated and cannot be sealed, NCO group reacts with water and produces carbon dioxide. If container is re-sealed after contamination, it will result in high pressure which may lead to danger. Improper container: copper container, copper alloy container and container with coated surface. Storage temperature: 0°C~35°C.
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VIII. Exposure prevention measures

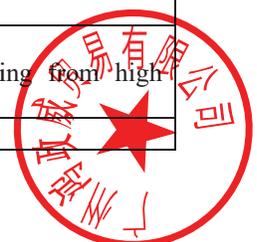
Engineering control: 1. Strictly control and handle, and adopt separated or enveloped handling as possible; 2. Use explosion-proof and grounded ventilating system separately; 3. Lead exhaust port to outdoors directly; 4. Exhaust gas needs to be treated to avoid environmental protection; 5. Supply plenty of fresh air.
Personal protective equipment: Respiratory protection: self-contained breathing apparatus operated in positive pressure mode, cartridge respiratory protective device.
Hand protection: impervious gloves.
Skin and body protection: Rubber aprons, emergency equipment for flushing body and washing eyes, working shoes.
Health measures: 1、 Immediately remove contaminated clothing after work, only use them again after washing. Inform laundry person of the hazard of contaminated materials; 2、 No smoking or eating is allowed at working site; 3. Completely wash your hands after treatment; 4. Keep working site clean;

IX. Physical and chemical properties

Material status: viscous liquid	Color: various colors
Spontaneous ignition temperature: >600°C	Boiling point: >300°C Flash point: >200°C
Vapour pressure: 73mmhg	Solubility: Harden immediately through reaction if contact with water or aqueous vapor Solubility: dissolved in most organic solvents

X. Stability and reactivity

Stability: stable in normal conditions.
Possible hazardous reaction in special conditions: Hardening reacted as co-existing with water, amine and alcohol, preventing from high temperature.
Conditions that should be avoided:



Gelling as moisture absorbed in air. No contact with water.
Substances that should be avoided: 1. Strong oxidizer; 2. Hyperoxide; 3. Nitric acid; 4. Moisture and water; 5. Strong base.
XI. Toxicological information
Acute toxicity: Inhale: Inhalation: 1. Vapour irritates nose and trachea; 2. Cause irritation of body in 3-5min at 400ppm, and severe exposure may cause symptoms of depressing central nervous system including polypnoea, headache, sleepiness or qualm. Skin: Repeated moderate stimulation or contact for long time will cause skin allergy. Medium lethal dose for skin contact: >9000mg/KG Eyes: Its steam and liquor are pungent. Ingestion: It will stimulate the mouth, esophagus and intestine, medium lethal dose for ingestion: 5000mg/KG (Mouse) Partial effect: cause irritation at 400ppm. Chronic or long term toxicity: 10% solution generally may not cause skin allergy to human except those sensitive to allergy
XII. Ecological information
Possible environmental impact: 1. Generally not easy biological decomposition in environment; 2. Gelling and hardening in water; 3. Gelling by moisture in air.
XIII. Disposal methods
Disposal methods: 1. Refer to relevant disposal regulations; 2. Use special incineration method; 3. Entrust to qualified agency disposal organization.
XIV. Transport information
Domestic transport regulations: 1. Article 84 of Road & Traffic Safety Rules; 2. Rules on loading of dangerous goods on vessels.
XV. Regulatory information
Applicable laws and regulations: Chemical goods safety management law: The Regulations of Safe Management Regarding Dangerous Chemicals (promulgated by the State council on February 17, 1987); Rules for the implementation of Regulations of Safe Management Regarding Dangerous Chemicals (Hua Lao Fa [1992] No.677)
XVI. Other information
Name of tabulator: INSTAGREEN S.A.
Tabulation date: March, 16, 2019

The source of the information in this Material Safety Data Sheet is reliable. The company shall not bear any responsibility for any loss or undesirable effects of any kind caused during loading & unloading, storage, use or disposal of product that cannot be controlled by our company.

