

MATERIAL SAFETY DATA SHEET

SECTION I

DATE OF PREPARATION

June 2011

PRODUCT NAME: ICO Ure GuardSL / TL Coating, Part A
PRODUCT CLASS Polyurethane Flooring
PRODUCT TYPE Polyalcohol Emulsion
D.O.T. CATEGORY: Non-Regulated
HMIS RATING Health - 2, Flammability - 1, Reactivity - 0
ADDRESS: International Coatings
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Div. of Milamar Coatings, L.L.C.
311 N.W. 122nd St. Suite 100
Oklahoma City, OK 73114
TELEPHONE: 405-755-8448
EMERGENCY: CHEM TEL 800-255-3924

SECTION II - HAZARDOUS INGREDIENTS

Listed below are the hazardous component(s) as defined in 49 CFR 172 and 29CFR 1910 which are present in this product and all components which appear on the hazardous substance list of any state:

NONE

SECTION III - PHYSICAL DATA

PHYSICAL STATE: Colorless
SPECIFIC GRAVITY: 1.0 g/cm³ @ 68° F
DENSITY: 8.3 lbs/gal @ 68° F
ODOR: Very slight
VAPOR PRESSURE: No Data Available
PERCENT VOLATILES: 0%

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: Not applicable- water based product
LFL: None Determined
UFL: None Determined
Extinguishing Media: CO₂, Dry Chemical, Foam, Water Spray
SPECIAL FIRE FIGHTING PROCEDURES: Fire fighters should be equipped with self-contained breathing apparatus to protect against potentially toxic and irritating fumes. Use cold water spray to cool fire-exposed containers

SECTION V - HEALTH HAZARD DATA

PERMISSIBLE EXPOSURE LEVEL none established
EFFECTS OF OVER EXPOSURE
INHALATION May cause respiratory irritation.
EYES Eye contact may cause irritation.
SKIN May be moderately irritating to the skin.
INGESTION Not expected to be harmful if swallowed
FIRST AID
EYES Flush with water for at least 15 minutes. Use fingers to ensure that eyelids are separated and that the eye is being irrigated.
SKIN Wash thoroughly with soap and water. Remove contaminated clothing and shoes. Wash clothing before re-use. Get medical attention if irritation develops.
INHALATION If inhaled, remove to fresh air. Get medical attention if irritation develops.
INGESTION Do not induce vomiting. Get medical attention.

SECTION VI - REACTIVITY DATA

STABILITY: Stable under normal storage conditions.

INCOMPATIBILITY: Avoid bringing into contact with oxidizing agents, reducing agents, acids, and bases.

HAZARDOUS DECOMPOSITION PRODUCTS: CO, CO₂, Nitrogen Oxides (NO_x), and other aliphatic fragments

SECTION VII - SPILL OR LEAK PROCEDURE

STEPS TO TAKE IF SPILLED: Cleanup personnel must use appropriate personal protective equipment. Evacuate and keep unnecessary people out of spill area. Ventilate area to remove vapors. Dike or dam spilled material and control further spillage, if possible. Do not allow spilled material or wash water to enter sewers, surface waters, or groundwater systems. Absorb spill with inert material, and collect for proper disposal. Wash spill area with water.

WASTE DISPOSAL: Waste disposal should be in accordance with existing federal, state and local environmental control laws.

SECTION VIII - SPECIAL PRECAUTION INFORMATION

VENTILATION REQUIREMENTS: Local, unless applied in confined space or by spray apparatus, in which case proper respiratory equipment (see below) is required.

PERSONAL PROTECTIVE EQUIPMENT RECOMMENDED FOR NORMAL USE CONDITIONS:

EYE PROTECTION: Chemical goggles.

SKIN PROTECTION: Rubber or plastic gloves, wear cloth work clothing including long pants and Long sleeved shirts.

RESPIRATORY PROTECTION: In case of insufficient ventilation wear suitable respiratory equipment. Respirator with NIOSH-approved cartridges.

SECTION IX - HANDLING AND STORAGE

STORAGE TEMPERATURE: Minimum: 41 °F
Maximum: 122 °F

STORAGE PERIOD: 6 months after receipt of material by customer.

HANDLING/ STORAGE PRECAUTIONS: Use only with adequate ventilation/personal protection. Wash thoroughly after handling. Keep container closed when not in use. Do not get in eyes. Do not get on skin or clothing. Avoid breathing dust, vapors, or mist. Protect from freezing. Store in original or similar containers. Protect from light.

SECTION X – REGULATORY INFORMATION

WHMIS: D2A – Skin Sensitizer

THE INFORMATION HEREIN RELATES TO THE PRODUCT NAMED AND IS BASED UPON INFORMATION INTERNATIONAL COATINGS CONSIDERS TO BE ACCURATE. NO WARRANTY EXPRESSED OR IMPLIED IS INTENDED.

MATERIAL SAFETY DATA SHEET

SECTION I

DATE OF PREPARATION

June 2011

PRODUCT NAME: **ICO Ure GuardSL / TL Coating, Part B**
PRODUCT CLASS Polyurethane Flooring
PRODUCT TYPE Aromatic Isocyanate
D.O.T. CATEGORY: UN 3082 Environmentally hazardous substances, Liquid N.O.S. (4,4-Diphenylmethane Diisocyanate) 9 PG III
ADDRESS: **International Coatings**
Div. of Milamar Coatings, L.L.C.
311 N.W. 122nd St. Suite 100
Oklahoma City, OK 73114
TELEPHONE: 405-755-8448
EMERGENCY: CHEM TEL 800-255-3924

SECTION II - HAZARDOUS INGREDIENTS

HMIS RATING: Health - 2, Flammability - 1, Reactivity - 0

Listed below are the hazardous component(s) as defined in 49 CFR 172 and 29CFR 1910 which are present in this product and all components which appear on the hazardous substance list of any state:

Weight %	Components	CAS-No.
36-46%	Polymeric Diphenylmethane Diisocyanate	9016-87-9
22-32%	4,4'-Diphenylmethane Diisocyanate	101-68-8
24-34%	Diphenylmethane Diisocyanate	56-81-5

SECTION III - PHYSICAL DATA

PHYSICAL STATE: Liquid
SPECIFIC GRAVITY: 1.24 g/cm³ @ 68° F
DENSITY: 10.35 lbs/gal @ 68° F
ODOR: Very slight, musty
VAPOR PRESSURE: < 0.00001 mmHg @ 77° F
PERCENT VOLATILES: <0.5% @ 77° F

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: Approx. 428° F
LFL: Not Available
UFL: Not Available
Extinguishing Media: CO₂, Dry Chemical, Alcohol, Foam, water spray for large fires
SPECIAL FIRE FIGHTING PROCEDURES: Firefighters should wear NFPA compliant structural firefighting protective equipment, including self-contained breathing apparatus and NFPA compliant helmet, hood, boots and gloves. Avoid contact with product. Decontaminate equipment and protective clothing prior to reuse. During a fire, isocyanate vapors and other irritating, highly toxic gases may be generated by thermal decomposition or combustion. Cool fire-exposed containers with cold water spray. Heat will cause pressure buildup and may cause explosive rupture.

SECTION V - HEALTH HAZARD DATA

EFFECTS OF OVER EXPOSURE

INHALATION: Diisocyanate vapors or mist at concentrations above the TLV or PEL can irritate (burning sensation) the mucous membranes in the respiratory tract (nose, throat, lungs) causing runny nose, sore throat, coughing, chest discomfort, shortness of breath and reduced lung function (breathing obstruction). Persons with preexisting, nonspecific bronchial hyper reactivity can respond to concentrations below the TVL or PEL with similar symptoms as well as asthma-like symptoms. These symptoms can be delayed up to several hours after exposure. These effects are usually reversible.

EYES: Causes irritation with symptoms of reddening, tearing, stinging, and swelling. May cause temporary corneal injury. Vapor or aerosol may cause irritation with symptoms of burning and tearing.

SKIN: Causes irritation with symptoms of reddening, itching, and swelling. Persons previously sensitized can experience allergic skin reactions with symptoms of reddening, itching, swelling, and rash. Cured material is difficult to remove. Contact with MDI can cause discoloration.

INGESTION: May cause irritation; Symptoms may include abdominal pain, nausea, vomiting, and diarrhea.

FIRST AID

EYES: Flush with water for at least 15 minutes. Use lukewarm water if possible. Use fingers to ensure that eyelids are separated and that the eye is being irrigated. Get medical attention.

SKIN: Immediately remove contaminated clothing and shoes. Wash off soap and water. Use lukewarm water if possible. Wash contaminated clothing before reuse. For severe exposures, immediately get under safety shower and begin rinsing. Get medical attention if irritation develops.

INHALATION: Remove to an area free from further exposure. Get medical attention immediately. Administer oxygen or artificial respiration as needed. Asthmatic symptoms may develop and may be immediate or delayed up to several hours. Extreme asthmatic reactions can be life threatening.

INGESTION: GET MEDICAL ATTENTION IMMEDIATELY Do not induce vomiting. Wash mouth out with water. Do not give anything by mouth to an unconscious person.

SECTION VI - REACTIVITY DATA

STABILITY: Contact with moisture, other materials that react with isocyanates, or temperatures above 350 °F, may cause polymerization.

INCOMPATIBILITY: Avoid bringing into contact with strong bases, water, amines, alcohols, and copper alloys.

HAZARDOUS DECOMPOSITION PRODUCTS: By fire and high heat: hydrogen cyanide; carbon dioxide (CO₂), carbon monoxide (CO), oxides of nitrogen (NO_x), dense black smoke, isocyanates, isocyanic acid other undetermined compounds.

SECTION VII - SPILL OR LEAK PROCEDURE

LEAK/SPILL: Evacuate all non-essential personnel. Ventilate, eliminate all sources of ignition. Dike area to prevent spreading. Wear full protective equipment, including respiratory equipment during clean-up. Absorb spill with inert material. Place in approved waste container.

MAJOR SPILLS: If transportation spill occurs, call **INFOTRAC 1-800-535-5053**. If temporary control of isocyanate Vapor is required, a blanket of protein foam may be placed over spill. Large quantities may be pumped into closed, but not sealed, containers for disposal.

MINOR SPILLS: Cover spill area with suitable absorbent material. Pour decontamination solution over spill area and allow to react for at least 10 minutes. Shovel into suitable unsealed containers. Transport to a well-ventilated area (outside), and add further amounts of decontamination solution. Mixture of water, (80%) with non-ionic surfactant Tergitol TMN-10 (20%), or; water (90%), concentrated ammonia (3-8% and detergent (2%). Add about 10 parts of neutralizer per part of isocyanate, with mixing. Allow to stand uncovered for 72 hours to let carbon dioxide to escape.

CLEAN UP: Decontaminate floor with decontamination solution. Letting stand for at least 15 minutes.

WASTE DISPOSAL: Waste disposal should be in accordance with existing federal, state and local environmental controls laws. Incineration is the preferred method.

SECTION VIII - SPECIAL PRECAUTION INFORMATION

VENTILATION REQUIREMENTS: Local, unless applied in confined space or by spray apparatus in which case proper respiratory equipment (see below) is required.

PERSONAL PROTECTIVE EQUIPMENT RECOMMENDED FOR NORMAL USE CONDITIONS:

EYE PROTECTION: Chemical goggles.

SKIN PROTECTION: Avoid all skin contact. Chemical resistant gloves, Butyl Rubber, Nitrile Rubber, Neoprene, PVC. Depending on conditions of use, cover as much of the exposed skin area as possible with appropriate clothing to prevent skin contact.

RESPIRATORY PROTECTION: Respirator with NIOSH-approved cartridges with either a cartridge equipped with an end-of-service life indicator (ESLI) certified by NIOSH, or a change out schedule, based on objective information or data that will ensure that the cartridges are changed out before the end of the service life, must be developed and implemented.

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Do not breathe vapors, mists, or dusts. Use adequate ventilation to keep airborne isocyanate levels below the exposure limits. Wear respiratory protection if material is heated, sprayed, used in a confined space, or if the exposure limit is exceeded. Warning properties (irritation of the eyes, nose and throat or odor) are not adequate to prevent overexposure from inhalation. Avoid contact with skin and eyes. Wear appropriate eye and skin protection. Wash thoroughly after handling. Store in tightly closed containers to prevent moisture contamination. Do not reseal if contamination is suspected. Store in temperatures between 60 °F and 86 °F.

SECTION X - TRANSPORTATION

DOT PROPER SHIPPING NAME:	Environmentally hazardous substances, Liquid N.O.S. (4,4-Diphenylmethane Diisocyanete)
DOT HAZARD CLASSIFICATION OR DIVISION:	9
IDENTIFICATION NUMBER:	UN 3082
PACKAGING GROUP:	III
LABELS REQUIRED:	None

SECTION X – REGULATORY INFORMATION

WHMIS CLASSIFICATION: Controlled, D2A, D2B.

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