

SAFETY DATA SHEETS

FLEXKRETE FLEX POLYUREA SEAL

100 JOINT FILLER PART A

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: FlexKrete Flex Polyurea Seal 100 Joint Filler Part A
MANUFACTURER: Incredible Products LLC.
ADDRESS: 1601 McKinley Rd. St. Mary's, OH 45885
INFORMATION PHONE: 567-297-3700
EMERGENCY PHONE: 800-424-9300
REVISION DATE: September 14, 2022

SECTION 2: HAZARDOUS IDENTIFICATION

Classification:

Skin Irritation- Category: N/A

Eye Irritation- Category: N/A

Respiratory Sensitizer (Solid/Liquid)- Category: N/A

Skin Sensitizer- Category: N/A

Carcinogenicity- Category: N/A

Signal Word: Danger

Hazardous Statements - Health:

H319 - May cause eye irritation

H315 - May cause skin irritation

H317 - May cause an allergic skin reaction

H335 - May be harmful if inhaled

H303- May be harmful if swallowed

Precautionary Statements - General:

P101 - If medical advice is needed, have a product container or label at hand.

P102 - Keep out of reach of children.

P103 - Read label before use.

Precautionary Statements - Prevention:

P210 - Keep away from heat/sparks/open flames/hot surfaces.

P264 - Wash thoroughly after handling.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.

P284 - <In case of inadequate ventilation> wear respiratory protection.

P272 - Contaminated work clothing should not be allowed out of the workplace.

P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

Precautionary Statements - Response:

P332 + P313 - If skin irritation occurs: Get medical advice/attention.

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 - If eye irritation persists: Get medical advice/attention.

P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P342 + P311 - If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

P302 + P352 - IF ON SKIN: Wash with plenty of water.

P333 + P313 - If skin irritation or a rash occurs: Get medical advice/attention.

P321 - Specific treatment (see section 4 on this SDS).

P362 + P364 - Take off contaminated clothing. And wash it before reuse.

P308 + P313 - IF exposed or concerned: Get medical advice/attention.

Precautionary Statements - Storage:

P405 - Store locked up.

Precautionary Statements - Disposal:

P501 - Dispose of contents/ container to an approved waste disposal plant

SECTION 3: COMPOSITION/ INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS NUMBER	% WEIGHT
Diphenylmethane 4, 4'-Diisocyanate	108-68-8	30-60
Polyether Polyol	25322-69-4	20-40
Propylene Carbonate	108-32-7	1-10
Monofunctional Isocyanate	4083-64-1	<1
Metal Carboxylates	Not Available	<1

SECTION 4: FIRST AID MEASURES

Inhalation:

Remove the source of exposure or move the person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER/doctor. If breathing is difficult, trained personnel should administer emergency oxygen if advised to do so by the POISON CENTER/doctor. If exposed/feel unwell/concerned: Call a POISON CENTER/doctor.

Skin Contact:

Take off contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Gently blot away excess product. Wash with plenty of lukewarm, gently flowing water for a duration of 15-20 minutes. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before re-use or discard. IF exposed or concerned: Get medical advice/attention.

Eye Contact:

Remove sources of exposure or move a person to fresh air. Rinse eyes cautiously with lukewarm, gently flowing water for several minutes, while holding the eyelids open. Remove contact lenses, if present and easy to do. Continue rinsing for a duration of 15-20 minutes. Take care not to rinse contaminated water into the unaffected eye or onto the face. If eye irritation persists: Get medical advice/attention. Avoid direct contact. Wear chemical protective gloves, if necessary.

Ingestion:

Immediately call a POISON CENTER/doctor. Do NOT induce vomiting. If vomiting occurs naturally, lie on your side, in the recovery position. Give 1 or 2 glasses of milk or water to drink and refer the person to medical personnel. Do not give anything by mouth to an unconscious person. IF exposed or concerned: Get medical advice/attention.

SECTION 5: FIRE FIGHTING MEASURES

Suitable Extinguishing Media:

Dry chemical, alcohol resistant foam, dry powder, or carbon dioxide is recommended. Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces. Simultaneous use of foam and water on the same surface is to be avoided as water destroys the foam. Sand or earth may be used for small fires only.

Unsuitable Extinguishing Media:

Direct water spray. Water and foam may cause violent frothing and possibly endanger the life of the fire fighter.

Specific Hazards in Case of Fire:

Water contamination will produce carbon dioxide. Do not reseal contaminated containers as pressure buildup may rupture them.

Excessive pressure or temperature may cause explosive rupture of containers.

Exposure to vapors of heated isocyanates can be extremely dangerous.

Fire-fighting Procedures:

Isolate the immediate hazard area and keep unauthorized personnel out. Stop spill/release if it can be done safely. Move undamaged containers from the immediate hazard area if it can be done safely. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

Special Protective Actions:

Wear NIOSH approved self-contained breathing apparatus in positive pressure mode with full-face piece. Boots, gloves (neoprene), goggles, and full protective clothing are also required. Care should always be exercised in dust/mist areas.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Emergency Procedure:

Keep unnecessary people away; isolate hazard areas and deny entry. Do not touch or walk through spilled material. Clean up immediately. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).

Recommended Equipment:

Positive pressure, full-face piece self-contained breathing apparatus (SCBA), or positive pressure supplied air respirator with escape SCBA (NIOSH approved).

Personal Precautions:

Avoid breathing vapors. Avoid contact with skin, eyes or clothing. Do not touch damaged containers or spilled materials unless wearing appropriate protective clothing.

Environmental Precautions:

Stop spill/release if it can be done safely. Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems and natural waterways by using sand, earth, or other appropriate barriers.

SECTION 7: HANDLING AND STORAGE

General:

Wash hands after use.
Do not get in eyes, on skin or on clothing.
Do not breathe vapors or mists.
Use good personal hygiene practices.
Eating, drinking and smoking in work areas is prohibited.
Remove contaminated clothing and protective equipment before entering eating areas.
Individuals with existing respiratory disease such as chronic bronchitis, emphysema, or asthma should not be exposed to isocyanates.

Ventilation Requirements:

Use only with adequate ventilation to control air contaminants to their exposure limits.
The use of local ventilation is recommended to control emissions near the source.
Air circulation and exhaustion of isocyanate vapors must be maintained until the coatings have fully cured to ensure that no potential health hazard remains. Exposure to vapors of heated isocyanates can be extremely dangerous.

Storage Room Requirements:

Keep container(s) tightly closed and properly labeled. Store in cool, dry, well-ventilated areas away from moisture. Due to reaction with water producing CO₂ Gas, a hazardous build-up of pressure could result if contaminated containers are resealed. Do not reseal contaminated containers. Store in approved containers and protect against physical damage. Keep containers securely sealed when not in use. Empty containers retain residue and may be dangerous.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits:

Component Name

Diphenylmethane
4, 4'-Diisocyanate

CAS Number

101-68-8

Exposure Limits

ACGIH TLV (United States, 3/2012)
TWA: 0.005 PPM 8 Hours(s)
OSHA PEL (United States, 6/2010)
CEIL: 0.02 PPM
CEIL: 0.2 MG/M3
NIOSH REL (United States, 12/2001)
CEIL: 0.2 MG/M3 10 Minutes(s)
CEIL: 0.02 PPM 10 Minutes(s)
TWA: 0.05 MG/M3 10 Hours(s)
TWA: 0.005 PPM 10 Hours(s)

Polyether Polyol
Propylene Carbonate
Monofunctional Isocyanate

25322-69-4
108-32-7
4083-64-1

N/A
N/A
TWA: 0.02 MG/M3
STEL: 0.07 MG/M3
N/A

Metal Carboxylates

N/A

Eye Protection:

Wear eye protection with side shields or goggles. Wear indirect-vent, impact and splash resistant goggles when working with liquids. If additional protection is needed for the entire face, use it in combination with a face shield.

Skin Protection:

Use of gloves approved to relevant standards made from the following materials may provide suitable chemical protection: PVC, neoprene or nitrile rubber gloves. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, glove thickness, and dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Use of an apron and over-boots of chemically impervious materials such as neoprene or nitrile rubber is recommended to avoid skin sensitization. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Launder soiled clothes or properly disposed of contaminated material, which cannot be decontaminated.

Respiratory Protection:

If engineering controls do not maintain airborne concentrations to a level which is adequate to protect workers, a respiratory protection program that meets or is equivalent to OSHA 29 CFR 1910.134 and ANSI Z88.2 should be followed. Check with respiratory protective equipment suppliers. When airborne concentrations exceed or are expected to exceed the TLV, use MSHA/NIOSH approved positive pressure supplied air respirator with a full-face piece or an air supplied hood. For emergencies, use a positive pressure self-contained breathing apparatus. Air purifying (cartridge type) respirators are not approved for protection against isocyanates.

Appropriate Engineering Controls:

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

SPECIFIC GRAVITY: 1.11+/-0.005 G/CC @ 77 DEGREES F

BOILING POINT: N/A

EVAPORATION RATE: N/A

VAPOR DENSITY: N/A

SOLUBILITY IN H2O: N/A

SECTION 10: STABILITY AND REACTIVITY

Stability:

This product is stable when properly stored at normal temperature and pressures. Reaction with water (moisture) produces CO₂ gas. Exothermic reaction with materials containing active hydrogen groups. The reaction becomes progressively more vigorous and can be violent at higher temperatures if the miscibility of the reaction partners is good or is supported by stirring or by the presence of solvents. MDI is insoluble with and heavier than water and sinks to the bottom but reacts slowly at the interface. A solid water-insoluble layer of polyurea is formed at the interface.

Conditions to Avoid:

Moisture, contamination, and high temperatures

Hazardous Reactions/Polymerization:

Will not occur under normal conditions, but may occur at elevated temperatures in the presence of alkalis, tertiary amines and metal compounds.

Incompatible Materials:

This product is incompatible with water, alcohols, amines, bases, and acids

Hazardous Decomposition Products:

May produce toxic fumes of carbon dioxide, carbon monoxide, and/or nitrogen oxides when near heat source/flame.

SECTION 11: TOXICOLOGICAL INFORMATION

Eye Contact: Causes eye irritation

Skin Contact: Causes skin irritation and may cause an allergic skin reaction

Inhalation: Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Ingestion: May be harmful if swallowed

Acute Toxicity:

COMPONENT NAME	CAS NUMBER	LD50 ORAL (MG/KG)	LD50 DERMAL (MG/KG)	LC50 INHALATION (MG/M3/4HRS)
Diphenylmethane 4,4'-Diisocyanate	101-68-8	>10,000 (RAT)	>9,400 (Rabbit)	490 (Rat)
Polyether Polyol	25322-69-4	>2,000 (RAT)	>2,000 (Rabbit)	>80,000 (Rat)
Propylene Carbonate	108-32-7	33,520 (Rat)	>2,000 (Rabbit)	N/A
Monofunctional Isocyanate	4083-64-1	>2,600 (Rat)	N/A	2,560 (Rat)
Metal Carboxylates	N/A	N/A	N/A	N/A

Potential Chronic Effects:

Chronic Effects:

Contains material that can cause target organ damage once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

Target Organs:

Contains material which causes damage to the upper respiratory tract.

Carcinogenicity:

As of this publication, this material is not listed on the national toxic program (NTP) report of carcinogens. Please refer to the most recent information with NTP. The material is classified on the international agency for research on cancer (IARC) monographs as Group 3. Exposure to levels of MDI, significantly above the threshold limit value (0.005 PPM), was shown to be related to the occurrence of lung tumors in a study using rats.

Mutagenicity:

No known significant effects or critical hazards.

Teratogenicity: No known significant effects or critical hazards

Fertility Effects: No known significant effects or critical hazards

Developmental Effects: No known significant effects or critical hazards

Medical Conditions Aggravated by Over-Exposure:

Existing respiratory/pulmonary and skin conditions may be aggravated by overexposure.

SECTION 12: ECOLOGICAL INFORMATION

Environmental Effects:

Based on a review of the individual components, this product has low ecotoxicity on aquatic organisms. When in contact with water an inert non-biodegradable solid will be produced. There is no evidence of bioaccumulation occurring.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal:

Under RCRA, it is the responsibility of the user of the product, to determine the time of disposal whether the product meets RCRA criteria for hazardous waste. Waste management should be in full compliance with federal, state, and local laws. Empty containers retain product residue which may exhibit hazards of material, therefore do not pressurize, cut, glaze, weld or use for any other purposes. Return drums to reclamation centers for proper cleaning and reuse.

SECTION 14: TRANSPORTATION INFORMATION

U.S. DOT Information: Not regulated
IMDG Information: Not regulated

IATA Information: Not regulated

DOT:

Other regulated substance , liquid, N.O.S (contains: diphenylmethane 4,4'- diisocyanate)
 * Single containers less than 5,000 lbs are not regulated.

This product could potentially contaminate aquatic and terrestrial environments if not handled in accordance with all precautions, regulations, and laws. Users, transporters, and all other applicable entities must review, follow, and apply any and all necessary precautions and procedures to eliminate and/or minimize potential hazards or risks to aquatic or terrestrial environments.

REGULATORY INFORMATION	UN NUMBER	CLASSES	PG*	LABEL	ADDITIONAL INFORMATION
DOT CLASSIFICATION	NA3082	9	III	CLASS 9, CLASS/DIVISION 9 PACKING GROUP III	Reportable Quantity: 5,000 LBS. (2,268 KG) Single Containers less than 5,000 lbs. Are not regulated

*PG: Packaging Group

SECTION 15: REGULATORY INFORMATION

U.S. Federal Regulations:

This material is considered hazardous to health under OSHA Hazard Communication Standard (29 CFR1910.1200)

HCS Classification:

Toxic
 Irritant
 Sensitizer

TSCA 8B Inventory:

All components are listed on the TSCA Inventory or are exempt.

TSCA 5A (2): No components listed

TSCA 5E: No components listed

TSCA 12B: No components listed

Clean Air Section 112(B) Hazardous Air Pollutants (HAPS):

COMPONENT	CAS NUMBER	CONCENTRATION
Diphenylmethane 4,4'- Diisocyanate	101-68-8	30-60%

Clean Air Act- Ozone Depleting Substances (ODS):

This product does not contain nor is it manufactured with ozone depleting substances.

SARA 313 FORM R - Reporting Requirements

COMPONENT	CAS NUMBER	CONCENTRATION
Diphenylmethane 4,4'- Diisocyanate	101-68-8	30-60%

SARA 311/312 Hazard Identification: Not Classified

Cercla Hazardous Substances:

COMPONENT	CONCENTRATION	SECTION 302 (TPQ)	SECTION 313	SECTION 304 CERCLA RQ	CERCLA REPORTABLE QUANTITY	PRODUCT REPORTABLE QUANTITY
Diphenylmethane 4,4'- Diisocyanate	30-60%	Not listed	Not listed		5,000 lbs.	15,400

State Regulations:

Pennsylvania/ New Jersey/ Massachusetts - RTK:

COMPONENT	CAS NUMBER	CONCENTRATION
Diphenylmethane 4,4'-Diisocyanate	101-68-8	30-60%

California Prop 65:

The product contains no listed substances known to the State of California to cause cancer, birth defects, or other reproductive harm, at levels which would be required under the statute.

Canada:

WHMIS (Canada):

WHMIS CLASS D-2A: Material Causing other toxic effects (very toxic)

WHMIS CLASS D-2B: Material Causing other toxic effects (toxic)

This product has been classified in accordance with the hazard criteria of the controlled products regulation and the SDS contains all the information required by the controlled products regulations.

International Lists:

AUSTRALIA INVENTORY (AICS): All components are listed or exempted

CHINA INVENTORY (IECSC): All components are listed or exempted:

JAPAN INVENTORY: All components are listed or exempted

KOREA INVENTORY: All components are listed or exempted

NEW ZEALAND INVENTORY OF CHEMICALS (NZIOC): All components are listed or exempted

PHILIPPINES INVENTORY (PICCS): All components are listed or exempted):

SECTION 16: OTHER INFORMATION

DISCLAIMER

The information contained herein is based on the data available and is believed to be accurate, however, the manufacturer makes no warranty expressed or implied regarding the accuracy of this data or the results obtained from the use thereof. Accordingly, we assume no responsibility for injury from the use of this product