

SAFETY DATA SHEETS

GRANISEAL PART B

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: GRANISEAL PART B
MANUFACTURER: Incredible Products LLC. ADDRESS: 1101 Lincoln Ave, Wapakoneta, OH 45895
INFORMATION PHONE: 567-297-3700 EMERGENCY PHONE: 800-424-9300

SECTION 2: HAZARDOUS IDENTIFICATION

Classification:

Skin Irritation - Category 3
Eye Irritation - Category 2B
Respiratory Sensitizer (Solid/Liquid) - Category 5
Skin Sensitizer - Category 1
Carcinogenicity - Category 2

Pictograms:



Signal Word:

Danger

Hazardous Statements - Health:

H226 - Flammable liquid and vapor
H320 - May cause eye irritation
H316 - Causes mild skin irritation
H317 - May cause an allergic skin reaction
H333 - May be harmful if inhaled

Precautionary Statements - General:

P101 - If medical advice is needed, have 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

<u>INGREDIENT</u>	<u>CAS NO.</u>	<u>UNITS</u>	<u>ACGIH TLV</u>	<u>OSHA STEL</u>
Polymeric Hexamethylene Diisocyanate	28182-81-2	30-60	None	None
P-Chloro-a,a,a trifluorotoluene	98-56-6	10-30	None	None
Naphtha Petroleum	64742-94-5	10-30	None	None

SECTION 2 NOTES: *Indicates toxic chemical(s) subject to reporting requirements of section 313 of Title III and of 40 CFR 372.

SECTION 4: FIRST AID MEASURES

Inhalation:

Remove source of exposure or move 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 or brush 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 source of exposure or move 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 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, foam, carbon dioxide water spray or fog is recommended. Water spray is recommended to cool or protect exposed materials or structures. 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:

If water is used, use very large quantities of cold water. The reaction between water and hot isocyanate may be vigorous.

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 immediate hazard area and keep unauthorized personnel out. Stop spill/release if it can be done safely. Move undamaged containers from immediate hazard area if it can be done safely. Water spray may be useful in minimizing or dispersing vapors and to protect personnel. Water may be ineffective but can be used to cool containers exposed to heat or flame. Caution should be exercised when using water or foam as frothing may occur, especially if sprayed into containers of hot, burning liquid.

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 area 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.

Eyewash stations and showers should be available in areas where this material is used and stored.

Employee education and training in safe handling of this material is required under OSHA hazard communication standard. 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 insure 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 heat, direct sunlight, strong oxidizers and any incompatibilities. Store in approved containers and protect against physical damage. Keep containers securely sealed when not in use. Indoor storage should meet OSHA standards and appropriate fire codes. Containers that have been opened must be carefully resealed to prevent leakage.

Empty container retain residue and may be dangerous.

Use non-sparking ventilation systems, approved explosion-proof equipment and intrinsically safe electrical systems in areas where this product is used and stored.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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 entire face, use 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 worker, 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-container 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: N/A

Boiling Point: Transparent Liquid

Evaporation Rate: N/A

Vapor Density: 5.0

Solubility in H₂O: Insoluble

SECTION 10: STABILITY AND REACTIVITY

Stability:

Material is stable at standard temperature and pressure.

Conditions to Avoid:

Heat, high temperature, open flame, sparks, and moisture. Contact with incompatible materials in a closed system will cause liberation of carbon dioxide and buildup of pressure.

Hazardous Reactions/Polymerization:

Will not occur under normal conditions but under high temperatures in the presence of alkalis, tertiary amines, and metal compounds will accelerate polymerization. Possible evolution of carbon dioxide gas may rupture closed containers.

Incompatible Materials:

This product will react with any material containing active hydrogens, such as water, alcohol, ammonia, amines, alkalis and acids, the reaction with water is slow under 50°C, but is accelerated at higher temperature and in the presence of alkalis, tertiary amines, and metal compounds. Some reactions can be violent. Material can react with strong oxidizing agents.

Hazardous Decomposition Products:

Carbon dioxide, carbon monoxide, nitrogen oxides, trace amounts of hydrogen cyanide and unidentified organic compounds may be formed during combustion.

SECTION 11: TOXICOLOGICAL INFORMATION

INFORMATION ON LIKELY ROUTES OF EXPOSURE:

INHALATION: Direct contact and vapor inhalation

EYE CONTACT: Direct contact

SKIN CONTACT: Direct contact

INGESTION: Direct contact

CHEMICAL NAME	ORAL LD50	DERMAL LD50	INHALATION LC50
Trade Secret	-	-	=18500 mg/m3 (Rat)
p-chloro-a,a,a-trifluorotoluene	=13 g/kg (Rat)	>2 mL/kg (Rabbit)	=33 mg/L (Rat)
Naphtha Petroleum, heavy aromatic	>5000 mg/kg (Rat)	>2 mL/kg (Rabbit)	>590 mg/m3 (Rat)

INFORMATION ON TOXICOLOGY EFFECTS

SYMPTOMS: MAY CAUSE DROWSINESS OR DIZZINESS IF INHALED. MAY CAUSE RESPIRATORY IRRITATION.

DELAYED AND IMMEDIATE EFFECTS AS WELL AS CHRONIC EFFECT FROM SHORT AND LONG TERM EXPOSURE

SKIN CORROSION/IRRITATION CAUSES SEVERE BURNS. IRRITATING TO SKIN
SERIOUS EYE DAMAGE: IRRITATING TO EYES. RISK OF SERIOUS DAMAGE TO EYES.
IRRITATION: IRRITATING TO EYES, RESPIRATORY SYSTEM AND SKIN.
SENSITIZATION: NO DATA AVAILABLE
GERM CELL MUTAGENICITY: NO DATA AVAILABLE
CARCINOGENICITY
 THIS PRODUCT DOES NOT CONTAIN ANY CARCINOGENS OR POTENTIAL CARCINOGENS
REPRODUCTIVE TOXICITY
 N/A
STOT-SINGLE EXPOSURE
 N/A
STOT-REPEATED EXPOSURE
 N/A
ASPIRATION HAZARD
 N/A

SECTION 12: ECOLOGICAL INFORMATION

MATERIAL IS EXPECTED TO BE HARMFUL TO AQUATIC ORGANISMS. MAY CAUSE LONG-TERM ADVERSE EFFECTS.

ECOTOXICITY:

Material is expected to be harmful to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

Chemical Name	Algae/aquatic plants	Fish	Crustacea
p-chloro-a,a,a-trifluorotoluene magna EC50		11.5-15.8 48h lepomis macrochirus	3.68:48 h Daphnia
Naphtha Petroleum 50	2.5: 72 h Skeletonema	19:96 h Pimephales promelas LC50	0.95: 48 h Daphnia Magna EC 50

Oncorhynchus mykiss mg/L 1740: 96 h Lepomis Macrochirus mg/L LC50 static 45:96 h Pimephales Promelas mg/L LC50 flow-through 41:96 h Pimephales promelas mg/L LC 50

Persistence and degradability:

No Data Available

Bioaccumulation:

No Data Available

CHEMICAL NAME	PARTITION COEFFICIENT	
p-chloro-a,a,a-trifluorotoluene	98-56-6	3.7
Naphtha Petroleum Heavy Aromatic	64742-94-5	2.9-6.1

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

DOT

UN3272 ESTERS, N.O.S COMBUSTABLE LIQUID, 3, PG III

-MARINE POLLUTANT – MATERIAL IS EXPECTED TO BE HARMFUL TO AQUATIC ORGANISMS. MAY CAUSE LONG TERM EFFECTS.

IATA

UN3272 ESTERS, N.O.S COMBUSTABLE LIQUID, 3, PG III

IMDG

UN3272 ESTERS, N.O.S COMBUSTABLE LIQUID, 3, PG III

SECTION 15: REGULATORY INFORMATION

INTERNATIONAL INVENTORIES

TSCA	COMPLIES
DSL/NDL	COMPLIES
EINECS/ELINCS	COMPLIES
ENCS	COMPLIES
IECS	COMPLIES
KECL	COMPLIES
PICCS	COMPLIES
AICS	COMPLIES

LEGEND

TSCA- UNITED STATES TOXIC SUBSTANCES CONTROL ACT SECTION 8 (B) INVENTORY

DSL/INDSL- CANADIAN DOMESTIC SUBSTANCES LIST/NON-DOMESTIC SUBSTANCES LIST

EINECS/ELINCS- EUROPEAN INVENTORY OF EXISTING CHEMICAL SUBSTANCES/EUROPEAN LIST OF NOTIFIED CHEMICAL SUBSTANCES

ENCS- JAPAN EXISTING AND NEW CHEMICAL SUBSTANCES

IECS- CHINA INVENTORY OF EXISTING CHEMICAL SUBSTANCES

KECL- KOREAN EXISTING AND EVALUATED CHEMICAL SUBSTANCES

PICCS- PHILIPPINES INVENTORY OF CHEMICALS AND CHEMICAL SUBSTANCES

AICS- AUSTRALIAN INVENTORY OF CHEMICAL SUBSTANCES.

US FEDERAL REGULATIONS

SARA 311/312 HAZARD CATEGORIES:

ACUTE HEALTH HAZARD	YES	
CHRONIC HEALTH HAZARD		YES
FIRE HAZARD	YES	
SUDDEN RELEASE OF PRESSURE	YES	
REACTIVE HAZARD		NO

CWA (CLEAN WATER ACT) - THIS PRODUCT CONTAINS 40 CFR 122.21 AND 40 CFR 122.42 WHICH ARE POLLUTANTS PURSUANT TO CWA

CERCLA- THIS MATERIAL CONTAINS ONE OR MORE SUBSTANCES REGULATED AS A HAZARDOUS SUBSTANCE UNDER THE COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY ACT.

US STATE REGULATIONS:

CALIFORNIA PROPOSITION 65- THIS PRODUCT CONTAINS CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

US STATE RIGHT TO KNOW REGULATIONS

US EPA LABEL INFORMATION

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.