

# SAFETY DATA SHEET (SDS)

## SECTION 1 - IDENTIFICATION

<b>Product identifier</b>	RECOIL B
<b>Other means of identification</b>	None
<b>Recommended use and restrictions on use</b>	Construction product / Refer to technical information
<b>Initial supplier identifier</b>	Meghan's Supply & Design // BallistiX 11720 Main St Suite 120, Fredericksburg, VA 22408, United States +1 540-940-6698
<b>Emergency telephone number/restriction on use</b>	Canada – CANUTEC 24 hour number 613-996-6666

## SECTION 2 - HAZARD IDENTIFICATION

<b>Classification of hazardous product</b> (name of the category or subcategory of the hazard class)	Acute toxicity Oral - Category 4 Carcinogenicity - Category 2 Eye Irritation - Category 2 Flammable Liquids - Category 4 Reproductive Toxicity - Category 2 Respiratory Sensitizer (Solid/Liquid) - Category 1 Skin Irritation - Category 2 Skin Sensitizer - Category 1 Specific Target Organ Toxicity - Repeated Exposure - Category 2 Specific Target Organ Toxicity -Single Exposure (Respiratory Tract Irritation) - Category 3
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**Information elements**  
(symbols, signal words, hazard statements and precautionary statements of the category/subcategory)



- H227 - Combustible Liquid
- H302 - Harmful if swallowed
- H351 - Suspected of causing cancer.
- H319 - Causes serious eye irritation
- H361 - Suspected of damaging fertility or the unborn child
- H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled
- H315 - Causes skin irritation
- H317 - May cause an allergic skin reaction
- H373 - May cause damage to organs through prolonged or repeated exposure.
- H335 - May cause respiratory irritation

P264 - Wash thoroughly after handling. P270 - Do not eat, drink or smoke when using this product. P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood. P280 - Wear protective gloves/protective clothing/eye protection/face protection. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P284 - [In case of inadequate ventilation] wear respiratory protection. P272 - Contaminated work clothing should not be allowed out of the workplace. P260 - Do not breathe dust/fume/gas/mist/vapors/spray. P271 - Use only outdoors or in a well-ventilated area. P233 - Keep container tightly closed. P301 + P312 - IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. P330 - Rinse mouth. P308 + P313 - IF exposed or concerned: 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. P370 + P378 - In case of fire: Use dry chemical, carbon dioxide, foam to extinguish. For detailed information, see Section-5 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. P321 - Specific treatment (see section 4 on this SDS). P362 + P364 - Take off contaminated clothing. And wash it before reuse. P333 + P313 - If skin irritation or a rash occurs: Get medical advice/attention. P314 - Get Medical advice/attention if you feel unwell. P405 - Store locked up. P403 - Store in a well-ventilated place. P403 + P405 - Store in a well-ventilated place. Store locked up. P501 - Dispose of contents/ container to an approved waste disposal plant.

<b>Other Hazards Known</b>	None
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## SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name (common name/synonyms)	CAS NUMBER or other	Concentration (%)
4,4'-METHYLENEDIPHENYL DIISOCYANATE	101-68-8	56 - 100
XYLENE	1330-20-7	3 - 6
MDI (MONOMER)	26447-40-5	1.5 - 3
ETHYLBENZENE	100-41-4	0.9 - 1.4
BENZENE	71-43-2	Trace

All ingredients are listed according to OSHA (29 CFR).

\* Statement - This safety data sheet provides concentration range(s) instead of the actual concentration(s) considered trade secret(s).

## SECTION 4 - FIRST AID MEASURES

<b>Inhalation</b>	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a doctor.
<b>Ingestion</b>	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. NEVER give anything by mouth if victim is rapidly losing consciousness, or is unconscious or convulsing. Rinse mouth thoroughly with water. Have victim drink two glasses of water. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Call a doctor if you feel unwell.
<b>Skin contact</b>	IF ON SKIN: wash with plenty of water (15-20 minutes). IF SKIN irritation or rash occurs: Get medical attention. Take off contaminated clothing and wash it before reuse.
<b>Eye contact</b>	IF IN EYES, Rinse cautiously with water for several minutes (15-20). Remove contact lenses, if present and easy to do. Continue rinsing.
<b>Most important symptoms and effects (acute and delayed)</b>	Causes severe skin, respiratory or digestive tract burns and eye damage.
<b>Indication of immediate medical attention/special treatment</b>	In all cases, call a doctor. Do not forget this document.

## SECTION 5 - FIREFIGHTING MEASURES

<b>Specific hazards of the hazardous product (hazardous combustion products)</b>	Carbon oxides and other irritant/toxic gases and fumes.
<b>Suitable and unsuitable extinguishing media</b>	In case of fire: Use carbon dioxide, chemical powder agent and appropriate foam to extinguish surrounding products.
<b>Special protective equipment and precautions for fire-fighters</b>	During a fire, irritating/toxic smoke and fumes may be generated. Do not enter fire area without proper protection. Firefighters should wear proper protective equipment and self-contained breathing apparatus with full facepiece. Shield personnel to protect from venting, rupturing or bursting cans. Move containers from fire area if it can be done without risk. Water spray may be useful in cooling equipment and cans exposed to heat and flame.

## SECTION 6 - ACCIDENTAL RELEASE MEASURES

<b>Personal precautions, protective equipment and emergency procedures</b>	Absorb spillage to prevent material-damage. Restrict access to area until completion of clean-up. Ensure clean-up is conducted by trained personnel only. All persons dealing with clean-up should wear the appropriate protective equipment (See Section 8).
<b>Methods and materials for containment and cleaning up</b>	Ventilate area of release. Stop the leak if it can be done safely. Contain and absorb any spilled liquid concentrate with inert absorbent material, then place material into a container for later disposal (see Section 13). Contaminated absorbent material may pose the same hazards as the spilled product. Notify the appropriate authorities as required.

## SECTION 7 - HANDLING AND STORAGE

<b>Precautions for safe handling</b>	Wear protective gloves/ protective clothing/ eye protection/ face protection. Before handling, it is very important that engineering controls are operating, and that protective equipment requirements and personal hygiene measures are being followed. People working with this chemical should be properly trained regarding its hazards and its safe use. Inspect containers for leaks before handling. Label containers appropriately. Ensure proper ventilation. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with eyes, skin and clothing. Keep away from heat, sparks and flame. Avoid generating high concentrations of dusts, vapours or mists. Keep away from incompatible materials (Section 10). Keep containers closed when not in use. Empty containers are always dangerous. Refer also to Section 8.
<b>Conditions for safe storage, including any incompatibilities</b>	Store in a well-ventilated place. Keep container tightly closed. Keep cool. Store locked up. Store away from incompatible materials (Section 10). Inspect all incoming containers to make sure they are properly labelled and not damaged. Storage area should be clearly identified, clear of obstruction and accessible only to trained personnel. Inspect periodically for damage or leaks.

## SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>Control Parameters</b> (biological limit values or exposure limit values and source of those values)	Exposure limits: None known
<b>Appropriate engineering controls</b>	Use under well-ventilated conditions. Local exhaust ventilation system is recommended to maintain concentrations of contaminants below exposure limits. Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.
<b>Individual protection measures/personal protective equipment</b>	Respiratory protection is required if the concentrations are higher than the exposure limits. Use a NIOSH approved respirators if the exposure limits are unknown. Chemically protective gloves (impervious), and other protective clothing to prevent prolonged or repeated skin contact, must be worn during all handling operations. Wear protective chemical splash goggles to prevent mists from entering the eyes. Wash hands/nails/face thoroughly after handling. Do not eat, drink or smoke when using this product. Practice good personal hygiene after using this material. Remove and wash contaminated work clothing before re-use.

## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance / color</b>	Liquid	<b>Vapour pressure</b>	Not available
<b>Odour</b>	Characteristic	<b>Vapour density</b>	Heavier than air
<b>Odour threshold</b>	Not available	<b>Relative density</b>	9.91 lb/gal
<b>pH</b>	Not available	<b>Solubility</b>	Not available
<b>Melting point / Freezing point</b>	Not available	<b>Partition coefficient of n-octanol/water</b>	Not available
<b>Initial boiling point</b>	140 °C	<b>Auto-ignition temperature</b>	Not available
<b>Flash point</b>	61 °C	<b>Decomposition temperature</b>	Not available
<b>Evaporation rate</b>	Slower than ether	<b>Viscosity</b>	1500-1700cps
<b>Flammability (solid, gas)</b>	Not available	<b>VOC</b>	0.54 lb/gal
<b>Upper/Lower flammability or explosive limits</b>	Not available	<b>Gravity</b>	1.19

## SECTION 10 - STABILITY AND REACTIVITY

<b>Reactivity</b>	Does not react under the recommended storage and handling conditions prescribed.
<b>Chemical Stability</b>	Stable under the recommended storage and handling conditions prescribed.
<b>Possibility of hazardous reactions</b>	None known
<b>Conditions to avoid</b> (static discharge, shock or vibration)	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.
<b>Incompatible materials</b>	Oxidizing materials; etc.
<b>Hazardous decomposition products</b>	None known

## SECTION 11 - TOXICOLOGICAL INFORMATION

**Skin Corrosion/Irritation** Isocyanates react with skin protein and moisture and can cause irritation. Prolonged contact can cause reddening, swelling, rash, scaling, blistering, and, in some cases, skin sensitization. Individuals who have developed a skin sensitization can develop these symptoms as a result of contact with very small amounts of liquid material or as a result of exposure to vapor. Causes skin irritation **Serious Eye Damage/Irritation** Liquid, aerosols or vapors are severely irritating and can cause pain, tearing, reddening and swelling. Prolonged vapor contact may cause conjunctivitis. Any level of contact should not be left untreated. Causes serious eye irritation **Respiratory/Skin Sensitization** May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction **Carcinogenicity** Suspected of causing cancer. **Germ Cell Mutagenicity** No data available. **Reproductive Toxicity** Suspected of damaging fertility or the unborn child **Specific Target Organ Toxicity - Single Exposure** May cause respiratory irritation **Specific Target Organ Toxicity - Repeated Exposure** May cause damage to organs through prolonged or repeated exposure. **Aspiration Hazard** No data available. **Acute Toxicity** Harmful if swallowed **Likely Routes of Exposure** Inhalation, Ingestion, Skin contact, Eye contact **Chronic Exposure 0000100-41-4 ETHYLBENZENE** CARCINOGENIC EFFECTS: Ethyl Benzene has been listed by IARC as Group 2B, Possibly Carcinogenic to Humans. TERATOGENIC EFFECTS: Ethyl Benzene has been Classified as POSSIBLE for humans. 0001330-20-7 XYLENE High exposure to Xylenes in some animal studies have been reported to cause health effects on the developing embryo/fetus. Xylene in high concentrations has caused embryotoxic effects in laboratory animals. 0001330-20-7 XYLENE LC50 (rat): 6350 ppm (4-hour exposure) (unspecified isomers and ethylbenzene) (1) LC50 (rat): 6700 ppm (4-hour exposure) (65% m-xylene, 7.6% o-xylene, 7.8% p-xylene, 19.3% ethylbenzene) (2) ethylbenzene) (1) LC50 (rat): 6700 ppm (4-hour exposure) (65% m-xylene, 7.6% o-xylene, 7.8% p-xylene, 19.3% ethylbenzene)(2) LD50 (oral, rat): 5400 mg/kg (52% m-, 19% o-, 24% p-) (1) LD50 (oral, female mouse): 5251 mg/kg (60.2% m-, 9.1% o-, 14.6% p-, 17.0% ethylbenzene) (4) LD50 (oral, male mouse): 5627 mg/kg (60.2% m-, 9.1% o-, 14.6% p-, 17.0% ethylbenzene) (4) LD50 (dermal, rabbit): 12180 mg/kg (m-xylene); greater than 1700 mg/kg (mixed xylenes - undefined composition) (3) LD50 (oral, female mouse): 5251 mg/kg (60.2% m-, 9.1% o-, 14.6% p-, 17.0% ethylbenzene) (4) LD50 (oral, male mouse): 5627 mg/kg (60.2% m-, 9.1% o-, 14.6% p-, 17.0% ethylbenzene) (4) LD50 (dermal, rabbit): 12180 mg/kg (m-xylene); greater than 1700 mg/kg (mixed xylenes - undefined composition) (3) 0000071-43-2 BENZENE LC50 (rat): 13,700 ppm (4 hour exposure) (26); 9,980 ppm (7 hour exposure) (13,200 ppm - equivalent 4 hour exposure) (18) LD50 (oral, rat): 930 mg/kg (19); 5,600 mg/kg (2); 11.4 ml/kg (10,032 mg/kg) (21) LD50 (oral, mouse): 4,700 mg/kg (11; unconfirmed) LD50 (skin, rabbit and guinea pig): Greater than 9,400 mg/kg (20) 0000100-41-4 ETHYLBENZENE LC50 (inhalation, rat): 4000 ppm; 4-hour exposure (3) LD50 (oral, rat): 3.5 g/kg (1,3,5,10) LD50 (oral, rat): 4.72 g/kg (3,5,7,8) LD50 (dermal, rabbit): 17.8 g/kg (11) 0000101-68-8 4,4'-METHYLENEDIPHENYL DIISOCYANATE LC50 (rat): 369-490 mg/m<sup>3</sup> (aerosol) (4-hour exposure) (1) LC50 (rat): 178 mg/m<sup>3</sup> (17.4 ppm) (duration of exposure not reported) (2) LD50 (oral, rat): greater than 10,000 mg/kg (1,2) LD50 (dermal, rabbit): greater than 10,000 mg/kg (1) LD50 (oral, mouse): 2,200 mg/kg (3)

## SECTION 12 - ECOLOGICAL INFORMATION

<b>Ecotoxicity</b> (aquatic and terrestrial information)	No data available for this product
<b>Persistence and degradability</b>	No data available
<b>Bioaccumulative potential</b>	No data available.
<b>Mobility in soil</b>	No data available.
<b>Other adverse effects</b>	No data available.

## SECTION 13 - DISPOSAL CONSIDERATIONS

### Information on safe handling for disposal/methods of disposal/contaminated packaging

Dispose of contents/container into safe container in accordance with local, regional or national regulations.

## SECTION 14 - TRANSPORT INFORMATION

**UN number; Proper shipping name; Class(es); Packing group (PG) of the TDG Regulations:**

NOT REGULATED

**UN Number; Proper shipping name; Class(es); Packing group (PG) of the IMDG (maritime):**

NOT REGULATED

**UN Number; Proper shipping name; Class(es); Packing group (PG) of the IATA (air):**

NOT REGULATED

**Special Precautions (transport/conveyance):** None known

**Environmental hazards (IMDG or other):** None known

**Bulk transport (usually more than 450L in capacity):** Possible

## SECTION 15 - REGULATORY INFORMATION

<b>Safety/health Canadian regulations specifics</b>	Refer to Section 2 for the appropriate classification. This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR).
<b>Environmental Canadian regulations specifics</b>	Refer to Section 3 for ingredient(s) of the DSL
<b>Safety/health/environmental outside regulations specifics</b>	United States OSHA information: This product is regulated according to OSHA (29 CFR). United States EPA (Environmental Protection Agency) information: 40 CFR Refer to the ingredients listed in Section 3 & Sections 12; 13 & 14. United States TCSA information: Refer to the ingredients listed in Section 3.
<b>Bioaccumulative potential</b>	
<b>National Fire Protection Association (NFPA)</b>	HEALTH: 1 FLAMMABILITY: 1 INSTABILITY: 0 SPECIAL HAZARDS: Refer to Section 2 & 3. HAZARD SCALE: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

## SECTION 16 - OTHER INFORMATION

<b>Date of the latest revision of the safety data sheet</b>	June 21, 2022 version 2
<b>Corrections</b>	SDS Template modifications
<b>References</b>	Safety Data Sheets from manufacturer/supplier
<b>Abbreviations</b>	<b>ACGIH</b> American Conference of Governmental Industrial Hygienists <b>ATE</b> Acute toxicity estimate <b>CAS</b> Chemical Abstract Service <b>DSL</b> Domestic Substance List <b>IARC</b> International Agency for Research on Cancer <b>IATA</b> International Air Transport Association <b>IMDG</b> International Maritime Dangerous Goods Code <b>LC</b> Lethal concentration <b>LD</b> Lethal Dosage <b>NIOSH</b> National Institute for Occupational Safety and Health <b>NTP</b> National Toxicology Program (U.S.A.) <b>OSHA</b> Occupational Safety and Health Administration (U.S.A.) <b>PEL</b> Permissible Exposure Limit <b>STEL</b> Short-term Exposure Limit <b>TDG</b> Transport of dangerous goods in Canada <b>TLV</b> Threshold Limit Value <b>TSCA</b> Toxic Substances Control Act <b>TWA</b> Time Weighted Average <b>WHMIS</b> Workplace Hazardous Materials Information System

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