


### SAFETY DATA SHEET

Section 1. Identification		
Product identifier	Hard Coat 85 - Part B	
Other means of identification	Hard Coat 85	
Recommended use and restrictions on use	Floor coating	
Supplier informations	11530 Chairman Dr, Dallas, TX 75243 927.293.4444 contact@advancedresins.com	
Emergency telephone number/restriction on use	Canada – CANUTEC 24-hour number 613-996-6666	
Section 2. Hazard identification		
Classification of hazardous product (name of the category or subcategory of the hazard class)		
Skin irritation (Category 2) Eye irritation (Category 2A) Specific target organ toxicity – single exposure (Category 3) Skin sensitization (category 1) Acute toxicity inhalation (Category 4) Respiratory sensitization (category 1) Specific target organ toxicity - repeated exposure (Category 2) Information elements (symbols, signal words, hazard statements)		
Information elements (symbols, signal words, hazard statements and precautionary statements of the category/subcategory)		
 <p><b>Warning</b>  <b>H315</b> Causes skin irritation.  <b>H317</b> May cause an allergic skin reaction.  <b>H319</b> Causes serious eye irritation.  <b>H332</b> Harmful if inhaled.  <b>H334</b> May cause allergy or asthma symptoms or breathing difficulties if inhaled.  <b>H335</b> May cause respiratory irritation.  <b>H373</b> May cause damage to organs through prolonged or repeated exposure.  <b>P201</b> Obtain special instructions before use. <b>P202</b> Do not handle until all safety precautions have been read and understood.  <b>P260</b> Do not breathe dusts or mists. <b>P264</b> Wash hands/nails/face thoroughly after handling. <b>P271</b> Use only outdoors or in a well-ventilated area.  <b>P272</b> Contaminated work clothing should not be allowed out of the workplace. <b>P280</b> Wear protective gloves/protective clothing/eye protection/face protection. <b>P284</b> Wear respiratory protection. <b>P304 + P340</b> IF INHALED: Remove person to fresh air and keep comfortable for breathing. <b>P312</b> Call a doctor if you feel unwell. <b>P342 + P311</b> If experiencing respiratory symptoms: Call a doctor. <b>P302 + P352</b> IF ON SKIN, Wash with plenty of water for several minutes. <b>P333 + P313</b> IF SKIN irritation or rash occurs: Get medical attention. <b>P362 + P364</b> Take off contaminated clothing and wash it before reuse. <b>P305 + P351 + P338</b> IF IN EYES, Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. <b>P337 + P313</b> If eye irritation persists: Get medical attention. <b>P308 + P313</b> IF exposed or concerned: Get medical attention. <b>P273</b> Avoid release to the environment. <b>P391</b> Collect spillage. <b>P403 + P233 + P235</b> Store in a well-ventilated place. Keep container tightly closed. Keep cool. <b>P405</b> Store locked up. <b>P501</b> Dispose of contents/container into safe container in accordance with local, regional, or national regulations.</p>		
Other hazards known	None	
Section 3. Composition/information on ingredients		
Chemical name (common name/synonyms)	CAS number or other	Concentration (%)
Homopolymer of HDI	28182-81-2	60-80
Hexamethylene diisocyanate	822-06-0	< 1
Dipropylene glycol dimethyl ether	111109-77-4	15-40
* Statement - This safety data sheet provides concentration range(s) instead of the actual concentration(s) by weight (except for gases/propellants by volume) considered trade secret(s).		

<b>Section 4. First-aid measures</b>	
<b>Inhalation</b>	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a doctor if you feel unwell.
<b>Ingestion</b>	IF SWALLOWED: Immediately call a doctor. 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.
<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. If eye irritation persists: Get medical attention.
<b>Most important symptoms and effects (acute or delayed)</b>	Causes skin irritation.
<b>Indication of immediate medical attention/ special treatment</b>	In all cases, call a doctor. Also consider the other instructions of this section document.
<b>Section 5. Fire-fighting measures</b>	
<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.	
<b>Section 6. Accidental release measures</b>	
<b>Personal precautions, protective equipment and emergency procedures</b>	
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.	
<b>Section 7. Handling and storage</b>	
<b>Precautions for safe handling</b>	
Wear 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	

**Section 8. Exposure controls/Personal protection**
**Control parameters (biological limit values or exposure limit values and source of those values)**

Exposure limits: Dust – PEL-TWA 15 mg/m<sup>3</sup> (total dust) & 5 mg/m<sup>3</sup> (respirable fraction);

**Appropriate engineering controls**

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.

**Individual protection measures/personal protective equipment**

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, physical state/colour</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>	Not available
<b>pH</b>	Not available	<b>Solubility</b>	Not available
<b>Melting/freezing point</b>	Not available	<b>Partition coefficient - n-octanol/ water</b>	Not available
<b>Initial boiling point/range</b>	Not available	<b>Auto-ignition temperature</b>	Not available
<b>Flash point</b>	> 93°C	<b>Decomposition temperature</b>	Not available
<b>Evaporation rate</b>	Not available	<b>Viscosity</b>	Not available
<b>Flammability (solids and gases)</b>	Not available	<b>VOC</b>	Not available
<b>Upper and lower flammability/ explosive limits</b>	Not available	<b>Other</b>	None known

**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 (static discharge, shock or vibration)</b>	None known
<b>Incompatible materials</b>	Oxidizing materials; etc.
<b>Hazardous decomposition products</b>	None known

Section 11. Toxicological information	
<b>Information on the likely routes of exposure (inhalation, ingestion, skin and eye contact)</b>	Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction. Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation. May cause damage to organs through prolonged or repeated exposure.
<b>Symptoms related to the physical, chemical and toxicological characteristics</b>	Skin irritation, redness, stinging, pain; Eye irritation, redness, tearing; Digestive tract irritation; Respiratory tract irritation, coughing, shortness of breath, dizziness, drowsiness, nausea, and headaches.
<b>Delayed and immediate effects (chronic effects from short-term and long-term exposure)</b>	Skin Sensitization – Possible; Respiratory Sensitization – Possible; Germ Cell Mutagenicity – No data available; Carcinogenicity – No ingredient listed by IARC, ACGIH, NTP or OSHA Reproductive Toxicity – No data available; Specific Target Organ Toxicity – Single Exposure – Possible; Specific Target Organ Toxicity – Repeated Exposure – Possible; Aspiration Hazard – No data available; Health Hazards Not Otherwise Classified – No data available.
<b>Numerical measures of toxicity (ATE; LD50 &amp; LC50)</b>	CAS 28182-81-2 LC50 Inhalation - Rat - 4 h – 400-425 mg/m <sup>3</sup> ; CAS 822-06-0 LC50 Inhalation - Rat - 4 h – 310-350 mg/m <sup>3</sup> ; ATE not available in this document.
Section 12. Ecological information	
<b>Ecotoxicity (aquatic and terrestrial information)</b>	No data available for the 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>	Harmful to aquatic life with long lasting effects.
Section 13. Disposal considerations	
<b>Information on safe handling for disposal/methods of disposal/contaminated packaging</b>	Dispose of contents/container into safe container in accordance with local, regional, or national regulations.
Section 14. Transport information	
<b>UN number; Proper shipping name; Class(es); Packing group (PG) of the TDG Regulations</b>	Not regulated
<b>UN number; Proper shipping name; Class(es); Packing group (PG) of the IMDG (maritime)</b>	Not regulated
<b>UN number; Proper shipping name; Class(es); Packing group (PG) of the IATA (air)</b>	Not regulated
<b>Special precautions (transport/conveyance)</b>	None
<b>Environmental hazards (IMDG or other)</b>	None
<b>Bulk transport (usually more than 450 L in capacity)</b>	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.	
Section 16. Other information	
<b>Date of the latest revision of the safety data sheet</b>	October 4, 2023 version 001
<b>Corrections</b>	Complete review
<b>References</b>	Safety Data Sheets from manufacturer/supplier & from Canadian Centre for Occupational Health and Safety, CCOHS.
<b>Abbreviations</b>	
<b>ACGIH</b> <b>ATE</b> <b>CAS</b> <b>DSL</b> <b>IARC</b> <b>IATA</b> <b>IMDG</b> <b>LC</b> <b>LD</b> <b>NIOSH</b> <b>NTP</b> <b>OSHA</b> <b>PEL</b> <b>STEL</b> <b>TDG</b> <b>TLV</b> <b>TSCA</b> <b>TWA</b> <b>WHMIS</b>	American Conference of Governmental Industrial Hygienists Acute toxicity estimate Chemical Abstract Service Domestic Substance List International Agency for Research on Cancer International Air Transport Association International Maritime Dangerous Goods Code Lethal concentration Lethal Dosage National Institute for Occupational Safety and Health National Toxicology Program (U.S.A.) Occupational Safety and Health Administration (U.S.A.) Permissible Exposure Limit Short-term Exposure Limit Transport of dangerous goods in Canada Threshold Limit Value Toxic Substances Control Act Time Weighted Average Workplace Hazardous Materials Information System
To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.	