

TECHNICAL DATA SHEET

DESCRIPTION:

FALLOUT is an advanced, slow-curing floor coating system that offers a range of features to meet the most demanding indoor and outdoor needs. With its hybrid polyaspartic chemistry, FALLOUT provides durability without compromising on aesthetics – featuring vivid color stability at high UV exposure levels. What's more? It has user friendly application parameters with no special equipment needed for installation across wide temperature and humidity ranges!

PRIMARY APPLICATIONS:

From marine protection to aircraft hangars, bridges, and wastewater treatment applications – this top coat is perfect for industrial projects needing UV-stable protection in any environment. It even withstands low temperatures making it suitable for maintenance facilities or car washes as well as offshore platforms and cooling towers.

ADVANTAGES:

FALLOUT offers a variety of features, including low odor. Special handling allows for curing even in subzero weather, ensuring outdoor applications hold up to UV exposure without yellowing or fading over time. Additionally, these solutions are highly resistant to both abrasion and impact making them ideal across many industries while their chemical resistance protects against skydrols' effects on surfaces as well as hot tire peel situations. Further still decorative flakes can be added along with micro media traction agents – all atop the coating's 10-12 mil thick build capability delivering long lasting stability amidst any environment!

SURFACE PREPARATION:

OLD CONCRETE: For optimum results on old concrete surfaces, cleaning with specialized methods such as BLASTRAC sand blasting or diamond grinding is essential to remove any contaminants. Oils and fats must be thoroughly removed before proceeding. For maximum adhesion strength of the product applied, a primer should always be used in conjunction – acid etching followed by rinsing may also help open up the pores for better absorption if deemed necessary after testing chloride levels, moisture content and pH values of the substrate beforehand. Application should not proceed until all surface areas are completely dry.

NEW CONCRETE: To achieve maximum performance, new concrete should be allowed to cure for at least 30 days in order to reach a minimum compression resistance of 25 MPa (3625 lb/inch²) and traction resistance of 1.5 MPa (218 lb/in²). To prep the surface prior to coating application, BLASTRAC sand blasting or diamond grinding with grits coarser than 30 is recommended; alternatively acid etching may also suffice but requires an extra step involving thorough rinsing afterwards. A primer coat can further ensure proper adhesion while minimizing out-gassing effects.

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MIXING:

For the best results, mix equal parts (1:1) of Base Coat A and B in a clean-dry mixing pail. Include 500ml of desired pigment for enhanced color vibrancy. Gently stir to avoid over-mixing or introducing moisture; be mindful not to let temperatures drop below dew point as this will diminish pot life. Adding media agents is suggested post blending A and B components together while ensuring application takes place under moderate temperature/humidity conditions away from direct sunlight - large amounts can reduce pot life significantly if left unmonitored!

APPLICATION:

Smooth and even results every time! For your project, let a squeegee and roller be your go-to tools. Apply by pouring mixed product onto surface and spreading with a squeegee. Next, back-roll using an industrial grade 18" phenolic resin core with synthetic nap or lambswool cover - 1/8 to 3/8 inch thick will do just fine. To finish off those tricky corners and edges, use small chip brushes or 6- 8-inch wall edgers but don't forget: no puddles allowed!

CLEANING:

To ensure a successful final product, it is essential to properly clean application equipment with specified cleaner. If material hardens after being applied, removal can only occur through mechanical means. Beware of any possible splattering and make sure to wash the affected area thoroughly using hot soapy water for best results!

OVERLAPS:

For optimal results, ensure primer is still wet or tacky when applying subsequent overlaps. Reprime any areas where the base layer has dried and be prepared to prime porous substrates more than once for maximum adhesion.

SUGGESTIONS:

Sprinkle the primed area lightly with aggregate to provide better footing.

RESTRICTIONS:

To ensure successful application and curing, substrates must be kept within a specific temperature range of 42° - 86°F (5°C to 30°C), with the caveat that substrate temperatures remain above dew point by at least 5.5°F (3°C). In addition, initial relative humidity should not exceed 85% while ensuring underlying surface is moisture/humidity-free; thus preventing transfer during application. To maximize quality results, care must also be taken in protecting from condensation or direct contact with water throughout the 24 hour first cure period.

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TECHNICAL DATA

PACKAGING	2 US gal (7.56 L)	
COLOR	Upon request	
RECOMMENDED THICKNESS	PRIMER	FINISH COAT
	8 mils (200 ft ² /gal)	- Over solid color : 6 mils (266 ft ² /gal) - Over vinyl chips : 12 mils (140 ft ² /gal)
SHELF LIFE	12 months in original unopened factory sealed containers. Keep away from extreme cold, heat or moisture. Keep out of direct sunlight and away from fire hazards.	
MIX RATIO, BY VOLUME	A:B = 1:1	
MIX RATIO, BY WEIGHT	A:B = 100:110	
POT LIFE 16 OZ (454 G)	40 minutes @ 77°F (25°C)	

PROPERTIES @ 73°F (23°C) AND 50% R.H.

* Times are approximate and will be affected by changing ambient conditions, especially changes in temperature and relative humidity.

* The indicated mileage is calculated for flat surfaces. A porous or imperfect surface will require more material in order to cover the same mileage. *

	PART A	PART B	MIX
SOLIDS CONTENT, BY VOLUME - CLEAR	93%	78%	85%
SOLIDS CONTENT, BY WEIGHT - CLEAR	92%	75%	83%
DENSITY (KG/L)	1.06	1.15	1.11
THINNER RECOMMENDED	Xylene		
DRYING TIMES			
TACK-FREE	4 - 8 hours		
RECOAT TIME	2 - 4 hours from hard		
FOOT TRAFFIC	8 - 12 hours		
HEAVY EQUIPMENT TRAFFIC	24 hours		
FULL CURE	4 - 7 days		
ABRASION RESISTANCE, ASTM D4060 TABER ABRASER CS-17 WHEEL / 1000G (2.2 LBS) / 1000 CYCLES	9 mg loss		
ADHESION, ASTM D4541	Concrete-primer : > 550 psi (substrate ruptures)		
WATER ABSORPTION, ASTM D570	0.2 %		
WATER VAPOUR TRANSMISSION, ASTM E96	Water procedure B Film 0.01cm (0.004"): 1 perm		
HARDNESS (SHORE D), ASTM D2240	57 - 60		
FLEXIBILITY, 1/8" MANDREL, ASTM D1737	Pass		
FALLING SAND ABRASION RESISTANCE (L SAND/ 1 DRY MIL), ASTM D968	45		
	PART A	PART B	MIX
VISCOSITY @ 77°F (25°C)	350 - 450 CPS	75 - 100 CPS	125 - 225 CPS
GLOSS, ASTM D523	95+		

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PROPERTIES @ 73°F (23°C) AND 50% R.H.

FIRE RATING CAN/ULC S102		Estimated on similar coating
FLAME SPREAD		5
SMOKE DEVELOPED		94
TENSILE STRENGTH, ASTM D638		6500-7500 psi
COMPRESSIVE STRENGTH (PSI MPA), ASTM D695		9500
*W/QUARTZ		13700
*W/CHIPS		12200
ELONGATION AT BREAK, ASTM D638		100%
TEAR STRENGTH (PLI), ASTM D2240		350
VOC		121.8 g/L

* Times are approximate and will be affected by changing ambient conditions, especially changes in temperature and relative humidity.

* The indicated mileage is calculated for flat surfaces. A porous or imperfect surface will require more material in order to cover the same mileage. *

CHEMICAL RESISTANCE

CHEMICAL	RESULTS (77°C / 25°C)	CHEMICAL	RESULTS (77°C / 25°C)
ACETIC ACID 100%	C	NaCl / H ₂ O 10%	R
ACETONE	C	NITRIC ACID 20%	NR
AMMONIUM HYDROXIDE 50%	RC	PHOSPHORIC ACID 10%	R
BENZENE	C	PHOSPHORIC ACID 50%	NR
BRINE SATURATED H ₂ O	R	POTASSIUM HYDROXIDE 10%	R
H ₂ O CHLORINATED	R	POTASSIUM HYDROXIDE 20%	R, DIS
CLOROX (10%) H ₂ O	R	PROPYLENE CARBONATE	RC
DIESEL FUEL	RC	SKYDROL	C
GASOLINE	RC	SODIUM HYDROXIDE 25%	R
GASOLINE / 5% MTBE	RC	SODIUM HYDROXIDE 50%	R, DIS
GASOLINE / 5% METHANOL	RC	SODIUM HYPOCHLORITE 10%	R
HYDROCHLORIC ACID 20%	R	SODIUM BICARBONATE	R
HYDROCHLORIC ACID 10%	NR	STEARIC ACID	R
HYDRAULIC FLUID (OIL)	RC	SUGAR / H ₂ O	R
ISOPROPYL ALCOHOL	R	SULFURIC ACID 10%	R
LACTIC ACID	RC	SULFURIC ACID >50%	RC
MEK	RC	TOLUENE	R
METHANOL	R	1,1,1-TRICHLOROETHANE	C
METHYLENE CHLORIDE	C	TRISODIUM PHOSPHATE	R
MINERAL SPIRITS	RC	VINEGAR / H ₂ O 5%	R
MOTOR OIL	R	H ₂ O	R
MTBE	C	H ₂ O : 14 DAYS AT 179.6°F (82°C)	R
MURIATIC ACID 10%	R	XYLENE	RC

R = Recommended/ little or no visible damage

RC = recommended conditional/ some effect, swelling or discoloration

C = Conditional/ Cracking-wash within one hour of spillage to avoid affects

NR = Not recommended

DIS = Discolorative

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HEALTH & SAFETY:

Protect yourself from skin, eye and respiratory irritation by taking preventative measures. In the case of contact with any part of your body, wash immediately with water and soap. If you experience eye contact, rinse for at least 15 minutes before consulting a doctor. For symptoms related to inhaling this product's vapors or dust particles, relocate to an area where there is fresh air present as soon as possible; remove contaminated clothing prior to cleaning it in order to reuse safely afterwards. The components A & B contain toxic ingredients that may cause serious burns if exposed too long on the skin – always ensure suitable ventilation when using either one while wearing safety glasses plus chemical resistant gloves together with NIOSH/MSHA approved breathing apparatus filtering organic fumes built-in filter system are strongly recommended during useage!

Consult the material safety data sheet for further information.

IMPORTANT NOTICE:

BallistiX's utmost goal is to ensure the accuracy of all statements, recommendations, and technical information contained in this document. That being said it must be taken into consideration that these data are only applicable with respect to their specific material designated herein – they may not necessarily prove suitable when used with other materials. Therefore users should verify suitability for personal use & rigorously test products before using them; otherwise BallistiX takes no responsibility for any damages caused by misuse or misapplication of its documents/information.

SAFETY DATA SHEET PART A

SECTION 1 - IDENTIFICATION

Product identifier	FALLOUT A
Other means of identification	None
Recommended use and restrictions on use	Construction product / Refer to technical information
Initial supplier identifier	Meghan's Supply & Design // BallistiX 11720 Main St Suite 120, Fredericksburg, VA 22408, United States +1540-940-6698
Emergency telephone number/restriction on use	USA - INFOTRAC - 24 Hour Number 1800-535-5053

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) Skin sensitization (category 1) Acute toxicity inhalation (Category 4) Respiratory sensitization (category 1) Specific target organ toxicity - Single exposure (Category 3) Hazardous to the aquatic environment -Chronic (Category 3)
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Information elements
(symbols, signal words, hazard statements and precautionary statements of the category/subcategory)



DANGER

H315 Causes skin irritation
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335 May cause respiratory irritation.
H412 Harmful to aquatic life with long-lasting effects

P261 Avoid breathing dust/fume/gas/mist/vapors/spray. **P264** Wash hands/nails/face thoroughly after handling. **P271** Use only outdoors or in a well-ventilated area. **P272** Contaminated work clothing should not be allowed out of the workplace. **P273** Avoid release to the environment. **P280** Wear protective gloves/protective clothing/eye protection/face protection. **P284** Wear respiratory protection. **P302 +P352** IF ON SKIN: wash with plenty of water. **P333 +P313** IF SKIN irritation or rash occurs: Get medical attention. **P362 +P364** Take off contaminated clothing and wash it before reuse. **P304 +P340** IF INHALED: Remove person to fresh air and keep comfortable for breathing. **P310** Immediately call a doctor. **P342 +P311** If experiencing respiratory symptoms: Call a doctor. **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 attention. **P403 +P233** Store in a well-ventilated place. Keep container tightly closed. **P391** Collect spillage. **P405** Store locked up. **P501** Dispose of contents/container into safe container in accordance with local, regional or national regulations.

Other Hazards Known	None
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SAFETY DATA SHEET PART A

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name (common name/synonyms)	CAS NUMBER or other	Concentration (%)
Cycloaliphatic diamine	136210-30-5	25-50
Cycloaliphatic diamine	136210-32-7	25-50
4-methyl-1,3-dioxolane-2-one	108-32-7	1-10

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

Inhalation	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a doctor.
Ingestion	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.
Skin contact	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.
Eye contact	IF IN EYES, Rinse cautiously with water for several minutes (15-20). Remove contact lenses, if present and easy to do. Continue rinsing.
Most important symptoms and effects (acute and delayed)	Causes severe skin, respiratory or digestive tract burns and eye damage.
Indication of immediate medical attention/special treatment	In all cases, call a doctor. Do not forget this document.

SECTION 5 - FIREFIGHTING MEASURES

Specific hazards of the hazardous product (hazardous combustion products)	Carbon oxides and other irritant/toxic gases and fumes.
Suitable and unsuitable extinguishing media	In case of fire: Use carbon dioxide, chemical powder agent and appropriate foam to extinguish surrounding products.
Special protective equipment and precautions for fire-fighters	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

Personal precautions, protective equipment and emergency procedures	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).
Methods and materials for containment and cleaning up	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.

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SECTION 7 – HANDLING AND STORAGE

Precautions for safe handling	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/vapors/spray. Avoid contact with eyes, skin and clothing. Keep away from heat, sparks and flame. Avoid generating high concentrations of dusts, vapors 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.
Conditions for safe storage, including any incompatibilities	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

Control Parameters (biological limit values or exposure limit values and source of those values)	Exposure limits: None;
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

Appearance / color	Clear liquid	vapor pressure	Not available
odor	Characteristic	vapor density	Not available
odor threshold	Not available	Relative density	1.069 (g/ml)
pH	Not available	Solubility	Not available
Melting point / Freezing point	Not available	Partition coefficient of n-octanol/water	Not available
Initial boiling point/ranges	Not available	Auto-ignition temperature	Not available
Flash point	>212°F (100°C)	Decomposition temperature	Not available
Evaporation rate	Not available	Viscosity	500 –600 cps
Flammability (solid, gas)	Not available	VOC	<40 g/L
Upper/Lower flammability or explosive limits	Not available	Other	None know

SAFETY DATA SHEET PART A

SECTION 10 – STABILITY AND REACTIVITY

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

SECTION 11 – TOXICOLOGICAL INFORMATION

Information on the likely routes of exposure (inhalation, ingestion, skin and eye contact)	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.
Symptoms related to the physical, chemical and toxicological characteristics	Skin irritation, redness, stinging, pain; Eye irritation, redness, tearing; Respiratory tract irritation, coughing, shortness of breath, dizziness, drowsiness, nausea and headaches.
Delayed and immediate effects (chronic effects from short-term and long-term exposure)	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 – No data available; Aspiration Hazard – No data available; Health Hazards Not Otherwise Classified – No data available.
Numerical measures of toxicity (ATE; LD ₅₀ & LC ₅₀)	None;

SECTION 12 – ECOLOGICAL INFORMATION

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

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SECTION 15 – REGULATORY INFORMATION

Safety/health regulations specifics	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).
Environmental regulations specifics	Refer to Section 3 for ingredient(s) of the DSL
Safety/health/environmental outside regulations specifics	United States OSHA information: This product is regulated according to OSHA (29 CFR).
Bioaccumulative potential	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.
National Fire Protection Association (NFPA)	HEALTH: 2 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

Date of the latest revision of the safety data sheet	JUNE 10,2022 version 2
Corrections	SDS Template modifications
References	Safety Data Sheets from manufacturer/supplier
Abbreviations	<p>ACGIH American Conference of Governmental Industrial Hygienists</p> <p>ATE Acute toxicity estimate</p> <p>CAS Chemical Abstract Service</p> <p>DSL Domestic Substance List</p> <p>IARC International Agency for Research on Cancer</p> <p>IATA International Air Transport Association</p> <p>IMDG International Maritime Dangerous Goods Code</p> <p>LC Lethal concentration</p> <p>LD Lethal Dosage</p> <p>NIOSH National Institute for Occupational Safety and Health</p> <p>NTP National Toxicology Program (U.S.A.)</p> <p>OSHA Occupational Safety and Health Administration (U.S.A.)</p> <p>PEL Permissible Exposure Limit</p> <p>STEL Short-term Exposure Limit</p> <p>TDG Transport of dangerous goods</p> <p>TLV Threshold Limit Value</p> <p>TSCA Toxic Substances Control Act</p> <p>TWA Time Weighted Average</p> <p>WHMIS Workplace Hazardous Materials Information System</p>

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.

SAFETY DATA SHEET PART B

SECTION 1 - IDENTIFICATION

Product identifier	FALLOUT B
Other means of identification	None
Recommended use and restrictions on use	Construction product / Refer to technical information
Initial supplier identifier	Meghan's Supply & Design // BallistiX 11720 Main St Suite 120, Fredericksburg, VA 22408, United States +1540-940-6698
Emergency telephone number/restriction on use	USA - INFOTRAC - 24 Hour Number 1800-535-5053

SECTION 2 - HAZARD IDENTIFICATION

Classification of hazardous product (name of the category or subcategory of the hazard class)	Flammable liquid (Category 3) Skin irritation (category 2) Eye irritation (category 2A) Skin sensitization (category 1) Acute toxicity inhalation (Category 4) Respiratory sensitization (category 1) Specific target organ toxicity - Single exposure (Category 3) Reproductive toxicity (Category 1)
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Information elements
(symbols, signal words, hazard statements and precautionary statements of the category/subcategory)



H226 Flammable liquid and vapor.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H332 Harmful if inhaled.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335 May cause respiratory irritation.
H360 May damage fertility or the unborn child.

P210 Keep away from heat/sparks/open flames/ hot surfaces. No smoking. P202 Do not handle until all safety precautions have been read and understood. P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P240 Ground and bond container and receiving equipment. P241 Use explosion-proof equipment. P242 Use non-sparking tools. P243 Take action to prevent static discharges. P261 Avoid breathing dust/fume/gas/mist/vapors/spray. P264 Wash hands/nails/face thoroughly after handling. P271 Use only outdoors or in a well-ventilated area. P272 Contaminated work clothing should not be allowed out of the workplace. P280 Wear protective gloves/protective clothing/eye protection/face protection. P284 Wear respiratory protection. P303 +P361 +P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. P302 +P352 IF ON SKIN: wash with plenty of water. P333 +P313 IF SKIN irritation or rash occurs: Get medical attention. P362 +P364 Take off contaminated clothing and wash it before reuse. P304 +P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P310 Immediately call a doctor. P342 +P311 If experiencing respiratory symptoms: Call a doctor. 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 attention. P308 +P313 IF exposed or concerned: Get medical attention. P370 +P378 In case of fire: Use carbon dioxide, chemical powder agent and appropriate foam to extinguish. P403 +P233 +P235 Store in a well-ventilated place. Keep container tightly closed. Keep cool. P405 Store locked up. P501 Dispose of contents/container into safe container in accordance with local, regional or national regulations.

Other Hazards Known None

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SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name (common name/synonyms)	CAS NUMBER or other	Concentration (%)
Homopolymer of HDI	28182-81-2	60-100
Hexamethylene diisocyanate	822-06-0	<0.5
Dibasic ester	95481-62-2	≤25
2-Methoxypropylacetate	70657-70-4	<2

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

Inhalation	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a doctor.
Ingestion	IF SWALLOWED: rinse mouth and then drink plenty of water. Do not induce vomiting. Never induce vomiting or give anything by mouth if the victim is unconscious or having ingestion convulsions. Immediate medical attention required.
Skin contact	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.
Eye contact	IF IN EYES, Rinse cautiously with water for several minutes (15-20). Remove contact lenses, if present and easy to do. Continue rinsing.
Most important symptoms and effects (acute and delayed)	Causes skin irritation. Causes serious eye irritation.
Indication of immediate medical attention/special treatment	In all cases, call a doctor. Do not forget this document.

SECTION 5 - FIREFIGHTING MEASURES

Specific hazards of the hazardous product (hazardous combustion products)	Carbon oxides and other irritant/toxic gases and fumes.
Suitable and unsuitable extinguishing media	In case of fire: Use carbon dioxide, chemical powder agent and appropriate foam to extinguish.
Special protective equipment and precautions for fire-fighters	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

Personal precautions, protective equipment and emergency procedures	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).
Methods and materials for containment and cleaning up	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.

SAFETY DATA SHEET PART B

SECTION 7 - HANDLING AND STORAGE

Precautions for safe handling	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/vapors/spray. Avoid contact with eyes, skin and clothing. Keep away from heat, sparks and flame. Avoid generating high concentrations of dusts, vapors 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.
Conditions for safe storage, including any incompatibilities	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

Control Parameters (biological limit values or exposure limit values and source of those values)	Exposure limits: CAS 822-06-0ACGIH - TLV-TWA 0.005 ppm;
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

Appearance / color	Clear liquid	vapor pressure	Not available
odor	Characteristic	vapor density	Not available
odor threshold	Not available	Relative density	1.15g/ml
pH	Not available	Solubility	Insoluble
Melting point / Freezing point	Not available	Partition coefficient of n-octanol/water	Not available
Initial boiling point/ranges	>208°F (98°C)	Auto-ignition temperature	Not available
Flash point	>107°F (42°C) Closed cup	Decomposition temperature	Not available
Evaporation rate	Not available	Viscosity	Not available
Flammability (solid, gas)	Flammable	VOC	Not available
Upper/Lower flammability or explosive limits	Not available	Other	None know

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SECTION 10 – STABILITY AND REACTIVITY

Reactivity	Does not react under the recommended storage and handling conditions prescribed.
Chemical Stability	Stable under the recommended storage and handling conditions prescribed.
Possibility of hazardous reactions	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Conditions to avoid (static discharge, shock or vibration)	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Incompatible materials	Oxidizing materials; etc.
Hazardous decomposition products	None known

SECTION 11 – TOXICOLOGICAL INFORMATION

Information on the likely routes of exposure (inhalation, ingestion, skin and eye contact)	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 damage fertility or the unborn child.
Symptoms related to the physical, chemical and toxicological characteristics	Skin irritation, redness, stinging, pain; Eye irritation, redness, tearing; Respiratory tract irritation, coughing, shortness of breath, dizziness, drowsiness, nausea and headaches.
Delayed and immediate effects (chronic effects from short-term and long-term exposure)	Skin Sensitization – Possible; Respiratory Sensitization – Possible; Germ Cell Mutagenicity – No data available; Carcinogenicity – No ingredient listed by IARC, ACGIH, NTP or OSHA; Reproductive Toxicity – Possible; Specific Target Organ Toxicity – Single Exposure – Possible; Specific Target Organ Toxicity – Repeated Exposure – No data available; Aspiration Hazard – No data available; Health Hazards Not Otherwise Classified – No data available.
Numerical measures of toxicity (ATE; LD₅₀ & LC₅₀)	CAS 28182-81-2 LC ₅₀ Inhalation – Rat – 4 h – 400–425 mg/m ³ ; CAS 822-06-0 LC ₅₀ Inhalation – Rat – 4 h – 310–350 mg/m ³ ; CAS 108-65-6 LD ₅₀ Oral – Rat 8532 mg/kg; ATE not available in this document.

SECTION 12 – ECOLOGICAL INFORMATION

Ecotoxicity (aquatic and terrestrial information)	No data available for this product
Persistence and degradability	No data available
Bioaccumulative potential	No data available
Mobility in soil	No data available.
Other adverse effects	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 by ground in accordance with TDG.

UN Number; Proper shipping name; Class(es); Packing group (PG) of the IMDG (maritime):
UN1263; PAINT RELATED MATERIAL; CLASS 3; PG III

UN Number; Proper shipping name; Class(es); Packing group (PG) of the IATA (air):
UN1263; PAINT RELATED MATERIAL; CLASS 3; PG III

Special Precautions (transport/conveyance): May also be shipped as a LIMITED QUANTITY in accordance with TDG.

Environmental hazards (IMDG or other): None known

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

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SECTION 15 - REGULATORY INFORMATION

Safety/health regulations specifics	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).
Environmental regulations specifics	Refer to Section 3 for ingredient(s) of the DSL
Safety/health/environmental outside regulations specifics	United States OSHA information: This product is regulated according to OSHA (29 CFR).
Bioaccumulative potential	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.
National Fire Protection Association (NFPA)	HEALTH: 2 FLAMMABILITY: 2 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

Date of the latest revision of the safety data sheet	JUNE 10, 2022 version 2
Corrections	SDS Template modifications
References	Safety Data Sheets from manufacturer/supplier
Abbreviations	<p>ACGIH American Conference of Governmental Industrial Hygienists</p> <p>ATE Acute toxicity estimate</p> <p>CAS Chemical Abstract Service</p> <p>DSL Domestic Substance List</p> <p>IARC International Agency for Research on Cancer</p> <p>IATA International Air Transport Association</p> <p>IMDG International Maritime Dangerous Goods Code</p> <p>LC Lethal concentration</p> <p>LD Lethal Dosage</p> <p>NIOSH National Institute for Occupational Safety and Health</p> <p>NTP National Toxicology Program (U.S.A.)</p> <p>OSHA Occupational Safety and Health Administration (U.S.A.)</p> <p>PEL Permissible Exposure Limit</p> <p>STEL Short-term Exposure Limit</p> <p>TDG Transport of dangerous goods</p> <p>TLV Threshold Limit Value</p> <p>TSCA Toxic Substances Control Act</p> <p>TWA Time Weighted Average</p> <p>WHMIS Workplace Hazardous Materials Information System</p>

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.