SINGLE SHOT
100% SOLIDS EPOXY

TECHNICAL DATA SHEET

DESCRIPTION:
SINGLE SHOT is the perfect choice for a flawless finish. Offering excellent aesthetic appeal and proven durability, this two-component epoxy coating system delivers stellar performance without any solvents needed!

ADVANTAGES:
Our surface coating offers optimal protection against moisture and bacteria, while also making it easy to clean. It features an impressive adhesive quality, allowing multiple layers of application with excellent adhesion qualities as well - without any solvents! Plus, the VOC content is extremely low (75.4 g/L), so you can feel safe when applying the product indoors without inflicting harm on yourself or your environment through strong odors.

SURFACE PREPARATION:

OLD CONCRETE:
To ensure maximum adhesion of your product, we suggest starting with a thorough surface cleaning. BLASTRAC, sandblasting or water blasting are all excellent options for eliminating unwanted contaminants and oils/fats; depending on the job you may also require an acid-etching procedure followed by rinsing to open up the concrete's pores and absorb primer more efficiently. SINGLE SHOT is great for a variety of surfaces, but it's important to check the environment before applying - this includes assessing chloride levels, moisture content, and pH balance. For optimal results, we recommend pre-treating with an appropriate primer each time!

NEW CONCRETE:
To ensure the highest level of durability and strength, concrete must cure for a minimum of 30 days before any additional work can begin. Compression resistance should be no less than 25 Megapascals (3625 pounds per inch2), with traction resistance reaching at least 1.5 Megapascals (218 lbs/in2) within 28 days. To ensure superior results, BLASTRAC sandblasting along with diamond grinding or acid etching are necessary to remove post-curing surface laitance. After these procedures have been completed, a thorough rinse is required for finalization. A primer is essential for achieving optimal performance, as it reduces out-gassing and increases the overall adhesion of a substrate.

MIXING:
Ensure that materials are pre-heated before use for optimal results. Carefully blend component B with component A in the precise 2A:1B ratio by volume and mix them using a drill at low revolutions of 300 - 450 rpm, stirring continuously for one minute or more to ensure thoroughness and eliminate air pockets. To guarantee an even blend, ensure to scrape the container walls and bottom during preparation; only generate quantities that can be worked with promptly.

APPLICATION:
To ensure the best results, evenly spread a thin layer of mixed product on your surface using a rubber squeegee and backroll for full coverage. Take care to prevent any puddling from occurring.

TECHNICAL DATA SHEET

TECHNICAL DATA

PACKAGING	3 US gal (11.35L)		
COLOR	PART A: Clear PART B: Clear to amber		
RECOMMENDED THICKNESS	PRIMER (SINGLE SHOT)	FINISH COAT (SINGLE SHOT)	
SOLID COLOR	10 mils (150 ft²/gal)	16 mils (100 ft²/gal)	
FLAKES SYSTEM	10 mils (150 ft²/gal)	13 mils (120 ft²/gal)	
METALLIC SYSTEM	10 mils (150 ft²/gal)	40 mils (40 ft²/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 =2:1		
MIX RATIO, BY WEIGHT	Clear: A:B =100:41–48 Colors: A:B =100:39–45 With quartz sand : A:B =100:50 Mixture =200		
POT LIFE 16 OZ (454 G)	10–15minutes @ 77°F (25°C)		
WORKING TIME	40 minutes		
VOC	75.4 g/L		

PROPERTIES @ 73°F (23C) & 50% R.H.

SOLIDS CONTENT, BY VOLUME	100%			
SOLIDS CONTENT, BY WEIGHT	100%			
DENSITY (KG/L)	PART A	PART B	MIX	
CLEAR	1.05 – 1.10	0.9 – 1.0	–	
COLORS	1.10 – 1.15	0.9 – 1.0	–	
THINNER RECOMMENDED	Xylene			
WAITING TIME/ OVERCOAT-ABILITY	SUBSTRATE TEMPERATURE	MINIMUM	MAXIMUM	
BEFORE APPLYING SINGLE SHOT OVER PRIMER	>50°F (10°C)	24 hours	3 days	
	>68°F (20°C)	12 hours	2 days	
	>86°F (30°C)	6 hours	1 day	
BEFORE APPLYING SECOND COAT OF SINGLE SHOT	>50°F (10°C)	30 hours	3 days	
	>68°F (20°C)	24 hours	2 days	
	>86°F (30°C)	16 hours	1 day	
CURING DETAILS	SUBSTRATE TEMPERATURE	FOOT TRAFFIC	LIGHT TRAFFIC	FULL CURE
	>50°F (10°C)	30 hours	5 days	10 days
	>68°F (20°C)	24 hours	3 days	7 days
	>86°F (30°C)	16 hours	2 days	5 days
SERVICE TEMPERATURE	-4°F to 122°F (-20°C to 50°C)			

PROPERTIES @ 73°F (23C) & 50% R.H.

BOND RESISTANCE (PSI), ASTM D4541	>300 (substrate ruptures)		
PERMEABILITY (%), ASTM D570	0.3%		
HARDNESS (SHORE D), ASTM D2240	85-90		
ABRASIVE RESISTANCE, ASTM D4060 (CS17 / 1000 CYCLES / 1000 G)	0.10 g		
VISCOSITY @ 77°F (25°C)	PART A	PART B	MIX
CLEAR	1200-1400	150-350	600-800
COLORS	1400-1600	150-350	1200-1400
TENSILE STRENGTH (PSI), ASTM D638	5500		
COMPRESSIVE STRENGTH (PSI), ASTM D695	14000		
FLAMMABILITY	Class I (Not considered Flammable, Flash Point >199.4°F (93°C)		
ELONGATION (%), ASTM D638	6.7		
RESISTANCE TO MOLD GROWTH, ASTM D3273	Rated 10 (highest resistance)		
RESISTANCE TO FUNGI GROWTH, ASTM G21	Rated 0 (no growth)		

CLEANING:

Before starting your project, make sure to prep every tool and material with the appropriate cleaner/thinner for epoxies. To protect yourself as well, don't forget to properly wash off any residue on your skin or hands after handling the product - a warm soap solution should do the trick! After it hardens though, only mechanical methods can help you remove hardened epoxy from surfaces.

RESTRICTIONS:

When applying the coating, substrate temperatures should remain at a range of 50 to 86°F (10 - 30°C). During application and curing processes, relative humidity must stay below 85%. Moreover, be sure that the ambient temperature is 5.5°F (3 °C) more than dew point readings for best results; additionally, make certain that moisture content on substrates does not exceed 4% before finishing with the coating layer. Ensure your substrates are prepped and dry for optimal application results! For external applications, keep them out of reach from ground levels to avoid exposure risk. Plus, during the first 24 hours post-application be mindful of any humidity or condensation - this can cause discoloration if exposed to long-term ultraviolet light.

HEALTH & SAFETY:

Prevent potential harm to your skin, eyes, and respiratory system with these precautionary steps: In case of contact on the surface of the body, wash promptly with water and soap. If irritants enter your sightline, rinse thoroughly for at least 15 minutes then consult a medical professional if any discomfort remains. To ensure healthy breathing capability in troubling scenarios – move toward fresh air as soon as possible while discarding clothing exposed to contamination upon removal before reutilizing them again.

This product should be handled with extreme caution as it contains hazardous ingredients which can cause skin irritation upon contact. Furthermore, direct contact with the eyes and breathing in its vapors may lead to serious burns; therefore safety glasses and chemical-resistant gloves are a must when handling this strong sensitizer.

To ensure your safety while working with organic vapors, NIOSH and MSHA highly recommend using a certified breathing apparatus. Be sure to also assess the workspace for suitable ventilation according to the guidelines specified in the material safety data sheet.

NOTICE:

BallistiX is proud to provide the most accurate information, recommendations, and technical data concerning this specific material. It's important to note that its validity may not be retained if mixed with any other construction elements. BallistiX provides data that should be used with caution; users are responsible for determining its applicability to their own needs and testing it before use. Legally, BallistiX cannot accept liability in cases where the provided data is misused or inaccurate. BallistiX vows to provide full consumer satisfaction, making sure you're taken care of should any issues arise with your product.

SINGLE SHOT
100% SOLIDS EPOXY

SAFETY DATA SHEET
PART A

SECTION 1 – IDENTIFICATION

Product identifier	SINGLE SHOT 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 11720Main St Suite 120,Fredericksburg, VA 22408, United States +1540-940-6698
Emergency telephone number/restriction on use	USA – INFOTRAC 24 hour number **1-800-535-5053**

SECTION 2 – HAZARD IDENTIFICATION

Classification of hazardous product
(name of the category or subcategory of the hazard class)

Acute toxicity oral (Category 5)
Skin irritation (category 2)
Eye irritation (category 2A)
Skin sensitization (category 1)
Hazardous to the aquatic environment – Acute (Category 2)
Hazardous to the aquatic environment –Chronic (Category 2)

Information elements
(symbols, signal words, hazard statements and precautionary statements of the category/subcategory)

DANGER

H303 May be harmful if swallowed.
H315 Causes skin irritation
H317 May cause an allergic skin reaction
H319 Causes serious eye irritation
H401 Toxic to aquatic life.
H411 Toxic to aquatic life with long lasting effects

P261 Avoid breathing dust/fume/gas/mist/vapors/spray. **P264** Wash hands/nails/face thoroughly after handling. **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. **P302 +P352** IF ON SKIN: Wash with plenty of water. **P333 +P313** If skin irritation or rash occurs: Get medical advice/attention. **P362 +P364** Take off contaminated clothing and wash before reuse. **P305 +P351 +P338** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. **P337 +P313** If eye irritation persists: Get medical advice/attention. **P312** Call a POISON CENTER or doctor/ physician if you feel unwell. **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

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name (common name/synonyms)	CAS NUMBER or other	Concentration (%)
Epoxy resin reaction product Bisphenol A (Epichlorohydrin)	25085-99-8	60-100
Alkyl (C12-C14)glycidyl ether	68609-97-2	1-10
Benzyl alcohol	100-51-6	1-10

All ingredientsare 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 (15–20minutes). 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). Removecontact 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 face piece. 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.

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 known
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**	1.122 (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	>199.4°F (93°C)	**Decomposition temperature**	Not available
Evaporation rate	Not available	**Viscosity**	1200 – 1400 cps
Flammability (solid, gas)	Not available	**VOC**	45 g/L
Upper/Lower flammability or explosive limits	Not available	**Other**	None know

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)	May be harmful if swallowed. Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction.
Symptoms related to the physical, chemical and toxicological characteristics	Skin irritation, redness, stinging, pain; Eye irritation, redness, tearing;
Delayed and immediate effects (chronic effects from short-term and long-term exposure)	Skin Sensitization – Possible; Respiratory Sensitization – No data available; 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 – No data available; 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})	CAS 100-51-6LD50 Oral -Rat – 1230 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	Bioconcentration potential is moderate
Mobility in soil	No data available.
Other adverse effects	Toxic to aquatic life. Toxic to aquatic life with long lasting effects.

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):
UN3082; ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(bisphenol-A-(epichlorhydrin)epoxyresin);CLASS 9; PG III

UN Number; Proper shipping name; Class(es); Packing group (PG) of the IATA (air):
UN3082; ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(bisphenol-A-(epichlorhydrin)epoxyresin);CLASS 9; PG III

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

Environmental hazards (IMDG or other): Marine Pollutant

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

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 Bioaccumulative potential	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.
National Fire Protection Association (NFPA)	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

Date of the latest revision of the safety data sheet	February 4, 2020 version 5	
Corrections	SDS Template modifications	
References	Safety Data Sheets from manufacturer/supplier	
Abbreviations	**ACGIH**	American Conference of Governmental Industrial Hygienists
	ATE	Acute toxicity estimate
	CAS	Chemical Abstract Service
	DSL	Domestic Substance List
	IARC	International Agency for Research on Cancer
	IATA	International Air Transport Association
	IMDG	International Maritime Dangerous Goods Code
	LC	Lethal concentration
	LD	Lethal Dosage
	NIOSH	National Institute for Occupational Safety and Health
	NTP	National Toxicology Program (U.S.A.)
	OSHA	Occupational Safety and Health Administration (U.S.A.)
	PEL	Permissible Exposure Limit
	STEL	Short-term Exposure Limit
	TDG	Transport of dangerous goods
	TLV	Threshold Limit Value
	TSCA	Toxic Substances Control Act
	TWA	Time Weighted Average
	WHMIS	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.

SECTION 1 – IDENTIFICATION

Product identifier	SINGLE SHOT 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 11720Main St Suite 120,Fredericksburg, VA 22408, United States +1540-940-6698
Emergency telephone number/restriction on use	USA – INFOTRAC 24 hour number **1-800-535-5053**

SECTION 2 – HAZARD IDENTIFICATION

Classification of hazardous product
(name of the category or subcategory of the hazard class)

Acute toxicity oral (Category 4)
Skin corrosion (Category 1)
Serious eye damage (Category 1)
Skin sensitization (Category 1)
Reproductive toxicity (Category 2)
Hazardous to the aquatic environment – Acute (Category 1)
Hazardous to the aquatic environment – Chronic (Category 1)

Information elements
(symbols, signal words, hazard statements and precautionary statements of the category/subcategory)

DANGER

H302 Harmful if swallowed
H314 Causes severe skin burns and eye damage
H317 May cause an allergic skin reaction
H361 Suspected of damaging fertility or the unborn child
H400 Very toxic to aquatic life
H410 Very toxic to aquatic life with long lasting effects

P201 Obtain special instructions before use. **P202** Do not handle until all safety precautions have been read and understood. **P260** Do not breathe dust or mist. **P264** Wash with plenty of water and soap thoroughly after handling. **P270** Do not eat, drink or smoke when using this product. **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. **P301 +P330 +P331** IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. **P312** Call a POISON CENTER or doctor/physician if you feel unwell. **P303 +P361 +P353** IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. **P363** Wash contaminated clothing before reuse. **P332 +P313** IF SKIN irritation or rash occurs: Get medical attention. **P305 +P351 +P338** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. **P304 + P340** IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. **P310** Immediately call a POISON CENTER or doctor/physician. **P308 +P313** IF exposed or concerned: Get medical attention **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

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name (common name/synonyms)	CAS NUMBER or other	Concentration (%)
Epoxy adduct	Secret	10–30
Isophorone diamine	2855–13–2	10–30
Benzyl alcohol	100–51–6	1–10
Nonylphenol	84852–15–3	10–30
Poly(propylene glycol) bis(2–aminopropylether)	9046–10–0	20–40%

All ingredientsare 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 (or hair): Take off immediately all contaminated clothing. Rinse skin with water (15–20minutes). Wash contaminated clothing before reuse.
Eye contact	IF IN EYES, Rinse cautiously with water for several minutes (15–20). Removecontact 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 face–piece. 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.

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 known
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**	0.956 (g/ml)
pH	Not available	**Solubility**	Partial
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	>199.4°F (93°C)	**Decomposition temperature**	Not available
Evaporation rate	Not available	**Viscosity**	200 -400 cps
Flammability (solid, gas)	Not available	**VOC**	224 g/L
Upper/Lower flammability or explosive limits	Not available	**Other**	None know

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; Acids; etc.
Hazardous decomposition products	None known

SECTION 11 – TOXICOLOGICAL INFORMATION

Information on the likely routes of exposure (inhalation, ingestion, skin and eye contact)	Harmful if swallowed. Causes severe skin burns and eye damage. May cause an allergic skin reaction. Suspected of damaging fertility or the unborn child.
Symptoms related to the physical, chemical and toxicological characteristics	Skin burn, redness, stinging, pain; Eye burn, redness, tearing; Digestive tract burn; Respiratory tract burn, 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 – No data available; 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 – No data available; 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})	CAS 100-51-6LD50 Oral -Rat – 1230 mg/kg; CAS 9046-10-0LD50 Oral -Rat -242 mg/kg; LD50 Dermal -Rabbit – 360 mg/kg; CAS 2855-13-2LD50 Oral -Rat – 1030 mg/kg; CAS 84852-15-3LD50 Oral -Rat – 1246 mg/kg & LD50 Dermal -Rabbit – 2040 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	Toxic to aquatic life. Toxic to aquatic life with long lasting effects.

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:
UN3267; CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (isophorone diamine, 4-nonylphenol, branched); CLASS 8; PG III

UN Number; Proper shipping name; Class(es); Packing group (PG) of the IMDG (maritime):
UN3267; CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (isophorone diamine, 4-nonylphenol, branched); CLASS 8; PG III

UN Number; Proper shipping name; Class(es); Packing group (PG) of the IATA (air):
UN3267; CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (isophorone diamine, 4-nonylphenol, branched); CLASS 8; PG III

Special Precautions (transport/conveyance): None

Environmental hazards (IMDG or other): Marine Pollutant

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

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 Bioaccumulative potential	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.
National Fire Protection Association (NFPA)	HEALTH: 3 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 20, 2022 version 2	
Corrections	SDS Template modifications	
References	Safety Data Sheets from manufacturer/supplier	
Abbreviations	**ACGIH**	American Conference of Governmental Industrial Hygienists
	ATE	Acute toxicity estimate
	CAS	Chemical Abstract Service
	DSL	Domestic Substance List
	IARC	International Agency for Research on Cancer
	IATA	International Air Transport Association
	IMDG	International Maritime Dangerous Goods Code
	LC	Lethal concentration
	LD	Lethal Dosage
	NIOSH	National Institute for Occupational Safety and Health
	NTP	National Toxicology Program (U.S.A.)
	OSHA	Occupational Safety and Health Administration (U.S.A.)
	PEL	Permissible Exposure Limit
	STEL	Short-term Exposure Limit
	TDG	Transport of dangerous goods
	TLV	Threshold Limit Value
	TSCA	Toxic Substances Control Act
	TWA	Time Weighted Average
	WHMIS	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.