Safety Data Sheet

1. Identification

Product Information: 83261720

Family: 521

Product Name: BECC MARINE EPOXY TIE COAT COMPONENT A

Recommended Use: Painting / Coating

Supplied by/Manufacturer:
SUR QUIMICA S.A.
Calle 38, contiguo al Cementerio La Uruca.
San José, Costa Rica, Centroamérica
Tel Información: (506) 2211-3700,
Fax: (506) 2256-0690

Emergency Telephone: CHEMTREC: 1-800-424-9300INTERNATIONAL: (506) 2211-3911

Safety Data Sheet Coordinator: sds@gruposur.com

2. Hazards Identification

GHS Classification
Flam. Liq. 2, Repr. 1A, Skin Irrit. 2

Symbol(s) of Product

Signal Word
Danger

GHS HAZARD STATEMENTS

Flammable Liquid, category 2	H225	Highly flammable liquid and vapour.
Skin Irritation, category 2	H315	Causes skin irritation.
Reproductive Toxicity, category 1A	H360	May damage fertility or the unborn child.

GHS LABEL PRECAUTIONARY STATEMENTS

P201	Obtain special instructions before use.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P264	Wash skin thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P308+P313	IF exposed or concerned: Get medical advice/attention.
P321	Specific treatment (see FIRST AIDS on this sheet).
P332+P313	If skin irritation occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P370+P378	In case of fire: Use materials indicated in Section 5 to extinguish.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.

P501	Remove the contents / container according to the General Regulation for the Classification and Management of Hazardous Waste No. 41527-S-MINAE (Applies to Costa Rica).Dispose of contents/container in accordance with local/regional/national/ international regulations.

GHS ADDITIONAL INFORMATION

H371	Contains one or more Category 2 Specific Organ Toxicants at greater than 1.0%. A Safety Data Sheet shall be available for the mixture upon request.

GHS SDS PRECAUTIONARY STATEMENTS

P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof [electrical/ventilating/lighting/...] equipment.
P242	Use non-sparking tools.
P243	Take action to prevent static discharges.

3. Composition/Information on Ingredients

Chemical Name	CAS-No.	Wt. %	GHS Symbols	GHS Statements
Xilene	1330-20-7	2.5-10	GHS07	H303-313-315
1-Metoxi-2-propanol	107-98-2	2.5-10	GHS02-GHS07-GHS08	H226-336-360
Toluene	108-88-3	2.5-10	GHS02-GHS07-GHS08	H225-304-315-319-332-336-361-371
Methyl Isobutyl Ketone	108-10-1	1.0-2.5	GHS02-GHS07	H225-303-319-332-335

The text for GHS Hazard Statements shown above (if any) is given in the "Other information" Section.

4. First-aid Measures

FIRST AID - INHALATION: Artificial respiration and/or oxygen may be necessary. Keep the victim calm. Ensure that medical personnel are aware of the materials involved and take precautions to protect themselves. Oxygen or artificial respiration if needed. If inhaled, remove to fresh air. Give oxygen if necessary. Consult a physician if symptoms persist or exposure is severe.

FIRST AID - SKIN CONTACT: Seek medical advice. In case of skin contact, wash immediately with plenty of water for at least 20 minutes. In case of contact, wash skin immediately with soap and water. In case of contact, immediately flush skin with plenty of water while removing contaminated clothing and shoes. In case of burns, immediately wash skin with cold water. Seek medical advice. Do not remove clothes stick to the skin. Seek medical advice.

FIRST AID - EYE CONTACT: Flush eye(s) immediately with plenty of water. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

FIRST AID - INGESTION: If ingested, do not induce vomiting. If conscious, drink 8-10 oz. of water promptly. Call a physician immediately.

5. Fire-fighting Measures

UNUSUAL FIRE AND EXPLOSION HAZARDS: Burns with colorless flame. Heating may cause an explosion. Flammable liquid. Vapors can form an ignitable mixture with air. Vapors can flow along surfaces to a distant ignition source and flash back. Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks). When heated, emits highly irritating and noxious vapors.

SPECIAL FIREFIGHTING PROCEDURES: Do not use a solid water stream as it may scatter and spread fire. Move containers from fire area if you can do it without risk. All these products have a very low flash point: Use of water spray when fighting fire may be inefficient. Use a self-contained breathing apparatus with full facepiece operated in pressure-demand or other positive pressure mode. Flammable. Cool fire-exposed containers using water spray. For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn.

EXTINGUISHING MEDIA: Carbon Dioxide, Dry Chemical, Foam, Water Fog

6. Accidental Release Measures

ENVIRONMENTAL MEASURES: Do not allow to enter drains, sewers, or sewers.
Inform the authorities in the event of a leak in natural water courses or in the sewage system.

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Keep unauthorized personnel away. Stay upwind, uphill and/or upstream. Water spray can reduce vapours, but may not prevent ignition in enclosed spaces. Ventilate closed spaces before entering. All equipment used when handling the product must be grounded. Use clean, non-sparking tools to collect absorbed material. Do not touch or walk through spilled material. Stop leak if you can do it without risk. Prevent entry into waterwatys, sewers,

basements or confined areas. Use water spray to reduce vapors or divert vapor cloud drift. Absorb or cover with dry earth, sand or other non-combustible material and trasfer to containers. Dike to prevent entering any sewer or waterway. Transfer liquid to a holding container. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).

7. Handling and Storage

HANDLING: Handle in accordance with good industrial hygiene and safety practice. Keep away from open flames, hot surfaces and sources of ignition. Keep out of reach of children. Take precautionary measures against static discharges. Hazardous residue may remain in emptied container. Do not reuse empty containers without commercial cleaning or reconditioning.

STORAGE: Keep in a dry, cool and well-ventilated place. Once used, the container should be closed and keep in a well ventilated area and in vertical position to prevent losses. Keep containers closed when not in use.

8. Exposure Controls/Personal Protection

Ingredients with Occupational Exposure Limits

Chemical Name	ACGIH TLV-TWA	ACGIH-TLV STEL	OSHA PEL-TWA	OSHA PEL-CEILING
Xilene	20 ppm 8h	150 ppm 15 min	100 ppm 8h	N.E.
1-Metoxi-2-propanol	50	100	N.E.	N.E.
Toluene	20 ppm	N.E.	200 ppm	N.E.
Methyl Isobutyl Ketone	100	416 mg/m3	208 mg/m3 8 h	N.E.

Further Advice: MEL = Maximum Exposure Limit OES = Occupational Exposure Standard SUP = Supplier's Recommendation Sk = Skin Sensitizer N.E. = Not Established

Personal Protection

RESPIRATORY PROTECTION: In case of insufficient ventilation, wear suitable respiratory equipment.

SKIN PROTECTION: Do not wear leather gloves. Wear nitrile or neoprene gloves. Gloves should be inspectet before use. Use the correct technique to remove the gloves (without touching the exterior surface) to prevent skin contact with the product.

EYE PROTECTION: Wear chemical goggles and faceshield (if not wearing a full facepiece respirator). Wear approved eye protection according to applicable governmental regulations.

OTHER PROTECTIVE EQUIPMENT: When required, according to the concentration of the product, wear chemical protective clothing with limited thermal protection.

HYGIENIC PRACTICES: Wash hands and face before breaks and immediately after handling the product. Contaminated clothing should be changed and washed before reuse. Eating, drinking and smoking in immediate work area should be prohibited.

9. Physical and Chemical Properties

Appearance:	Liquid	**Physical State:**	Liquid
Odor:	Characteristic	**Odor Threshold, ppb:**	No Information
Density, g/ml:	1.574	**pH:**	N.A.
Freeze Point, °C:	No Information	**Viscosity, cP:**	No Information
Solubility in Water:	No	**Partition Coefficient, n-octanol/ water:**	No Information
Decomposition temperature, °C	No Information		
Boiling Range, °C:	150 - 150	**Explosive Limits, %:**	0.0 - 99.0
Combustibility:	Sin Información	**Flash Point, °C:**	22
Evaporation Rate:	No Information	**Auto-Ignition Temperature, °C**	No Information
Vapor Density:		**Vapor Pressure, mmHg:**	No Information

(See "Other information" Section for abbreviation legend)

10. Stability and Reactivity

STABILITY: Stable under recommended storage conditions.

CONDITIONS TO AVOID: Keep away from sources of ignition: heat, flame and sparks.

INCOMPATIBILITY: Oxidizing agents, strong acids and strong bases. Keep away from strong oxidizing agents, heat and open flames.

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition can lead to release of irritating gases and vapors.

11. Toxicological Information

Practical Experiences

INFORMATION ON TOXICOLOGICAL EFFECTS

Acute Toxicity: Contains lead-derived compounds: Direct exposure of solid particles of lead can have cardiovascular involvement (blood vessels and heart), can cause weakness in the fingers, wrists or ankles. Exposure to lead also produces a small increase in blood pressure, especially in middle-aged and elderly people and can cause anemia. Exposure to high levels of lead can seriously damage the brain and kidneys of children and adults and cause death. It contains toluene. Inhalation of large amounts of Toluene for short periods of time adversely affects the nervous system, the kidneys, the liver and the heart. The adverse effects that occur depend on the time and amount or concentration in the exposure; These may include muscle tremors, tingling in the fingers, severe headaches, seizures, drowsiness, absence of sensations and loss of consciousness. Some effects are reversible such as fatigue, headache, loss of manual ability and narcosis and therefore disappear once the exposure is over.

Skin corrosion/irritation: t causes severe burns on the skin. Direct dermal contact for a prolonged period can cause skin damage because it removes the lipids present, causing dryness, cracking and dermatitis; to these effects a break and fall of the exposed skin can follow.

Serious eye damage/eye irritation: Causes serious eye injuries. Severely irritating to the eyes. It can cause severe burns to eyes and skin. Adverse symptoms may include pain, tearing and redness.

Respiratory or skin sensitisation: No Information

Germ cell mutagenicity: No Information

Carcinogenicity: Contains lead derivatives: Inorganic compounds containing lead are categorized by IARC into group 2A likely to be carcinogenic in humans.

Reproductive toxicity: contains lead derivatives: direct exposure to lead particles can cause alterations in the development of the fetus (effects during periods in which organs develop), in the gastrointestinal system (digestive), hematological system (blood formation), skeletal muscle (muscles and skeleton), neurological (nervous system), ocular (eyes), renal (Urinary system or kidneys) and reproductive (producing children). Exposure to high levels of lead can lead to pregnancy loss. In men, exposure to high levels can alter sperm production

Specific target organ toxicity - single exposure: No Information

Specific target organ toxicity - repeated exposure: Contains lead chromate, prolonged exposure of adults can cause a general deterioration of health, negatively affects the nervous system in the result of some tests that measure basic functions.

Aspiration hazard: No Information

Acute Toxicity Values
The acute effects of this product have not been tested. Data on individual components are tabulated below

CAS-No.	Chemical Name	Oral LD50	Dermal LD50 (mg/kg)	Vapor LC50
1330-20-7	Xilene	4300	>4200	30
107-98-2	1-Metoxi-2-propanol	11700	13000	25.8
108-88-3	Toluene	5580	12196	20
108-10-1	Methyl Isobutyl Ketone	2080	16000	16.4

N.I. = No Information

Toxicidad Dermal del producto: 43,342.19 mg/kg

12. Ecological Information

Toxicity: No Information

Persistence and Degradability: No Information

Bioaccumulative potential: No Information

Mobility in the soil: No Information

Other adverse effects: No Information

13. Disposal Information

DISPOSAL METHOD: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal. Prevent entry into waterways, sewers, basements or confined areas.

14. Transport Information

SPECIAL TRANSPORT PRECAUTIONS: No Information

Sea Transport

UN Number:	1263
IMDG/GGVSee Class:	3
Packing Group:	III
Shipping Name:	PAINT
Marine Pollutant:	No
Shipping Hazard(Marine Pollutant):	No Information

Air Transport

UN Number:	1263
ICAO/IATA Class:	3
Packing Group:	III
Shipping Name:	PAINT

15. Regulatory Information

No information available

16. Other Information

Revision Date: 1/3/2023 **Supersedes Date:** New MSDS

Reason for revision: No Information

Datasheet produced by: SUR Química S.A.

Hazardous Material Information System: HMIS

Health	2	**Flammability**	3	**Reactivity**	0	**Personal Protection**	G	**Chronic Hazard**	Sí	**Target Organ**	SNC

National Fire Protection Association: NFPA

Flammability	3	**Health**	2	**Reactivity**	0	**Special Hazards**	N/A

Text for GHS Hazard Statements shown in Section 3 describing each ingredient:

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H303	May be harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H313	May be harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H360	May damage fertility or the unborn child.
H361	Suspected of damaging fertility or the unborn child.
H371	May cause damage to organs.

Icons for GHS Pictograms shown in Section 3 describing each ingredient:

GHS02

GHS07

GHS08

Legend: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined

The information contained in this safety sheet has been prepared for SUR QUIMICA S.A. based on the data provided by suppliers and manufacturers of the raw materials involved. This document is intended to be a guide for safe use according to use. The user receiving this information must be properly trained and be able to use his independent judgment to determine its applicability in particular uses. This safety data sheet (SDS) does not in any way exempt the user from knowing and complying with the good practices and rules of use applicable to their activity. The user must assume full responsibility to know and take precautions related to the use of the product. The exposure scenario is subject to revision and changes. The user must ensure that they have the latest version of the FDS. The updated versions are available on the website www.gruposur.com