

1. Identification

Product Information.	913232101A
Product Name:	Ramuc HB31 Epoxy Black Part A
Recommended Use.	Paints
Uses advised against.	Read label instructions and SDS
Supplier.	Modern Recreational Technologies, Inc. 2220 Highway 70 SE., Suite 100 Hickory, NC 28602 800-728-8258
Emergency telephone number.	Chemtrec: +1-800-424-9300 USA Chemtrec: +1 703-527-3887 ex-USA 24 hrs./day, 7 days/week

2. Hazards Identification

GHS Classification in accordance with 29 CFR 1910.1200

Flammable Liquid, category 2
Carcinogenicity, category 1A
Reproductive Toxicity, category 2
STOT, repeated exposure, category 2
Acute Toxicity, Inhalation, category 4
Skin Irritation, category 2
Eye Irritation, category 2A
Skin Sensitizer, category 1

GHS Pictograms



Signal Word

Danger

Unknown Acute Toxicity

37.7% of the mixture consists of ingredient(s) of unknown acute toxicity

HAZARD STATEMENTS

Highly flammable liquid and vapour.
Causes skin irritation.
May cause an allergic skin reaction.
Causes serious eye irritation.
Harmful if inhaled.
May cause cancer.
Suspected of damaging fertility or the unborn child.
May cause damage to organs through prolonged or repeated exposure.

Precautionary Statements - Prevention.

Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Keep away from heat, sparks, open flames, hot surfaces. No smoking.

Keep container tightly closed.
 Ground/bond container and receiving equipment.
 Use explosion-proof electrical/ventilating/lighting/equipment.
 Use only non-sparking tools.
 Take precautionary measures against static discharge.
 Do not breathe dust/fume/gas/mist/ vapors/spray.
 Wash face and hands and any exposed skin thoroughly after handling.
 Use only outdoors or in a well-ventilated area.
 Wear protective gloves, protective clothing, eye protection, face protection

Precautionary Statements - Response.

If on skin: Wash with plenty of water.
 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
 If inhaled: Remove person to fresh air and keep comfortable for breathing.
 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 If exposed or concerned: Get medical advice/attention.
 Call a poison center/doctor if you feel unwell.
 Specific treatment (If applicable, see label for any additional instructions).
 If skin irritation or rash occurs: Get medical advice/attention.
 If eye irritation persists: Get medical advice/attention.
 Take off contaminated clothing and wash it before reuse.
 In case of fire: Use CO₂ dry chemical or foam to extinguish.

Precautionary Statements - Storage.

Store in a well-ventilated place. Keep cool.
 Store locked up.

Precautionary Statements - Disposal.

Dispose of contents in accordance with local, regional, national, international regulations.

3. Composition/Information on Ingredients

<u>Chemical Name</u>	<u>CAS-No.</u>	<u>Wt. %</u>
Calcium carbonate (Limestone)	1317-65-3	25-50
reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700)	25068-38-6	10-25
XYLENE	1330-20-7	10-25
Barium Sulfate	7727-43-7	10-25
Talc	14807-96-6	2.5-10
Ethyl Benzene	100-41-4	2.5-10
Carbon black	1333-86-4	0.1-1.0
Methyl isobutyl ketone	108-10-1	0.1-1.0
Toluene	108-88-3	0.1-1.0
Crystalline silica (Quartz) (Respirable)	14808-60-7	0.1-1.0
Hydrogenated Castor Oil	8001-78-3	0.1-1.0

The exact percentage (concentration) of composition has been withheld as a trade secret.

4. First-aid Measures

Description of first-aid measures.**General advice.**

Move victim to a safe isolated area. When symptoms persist or in all cases of doubt seek medical advice.
 Call a poison control center or doctor for treatment advice.

Inhalation.

Move to fresh air. Apply artificial respiration if victim is not breathing. Call a poison control center or doctor for treatment advice.

Skin contact.

Wash off immediately with soap and plenty of water. Remove all contaminated clothes and shoes. Remove and wash contaminated clothing before re-use. Call a poison control center or doctor for treatment advice.

Eye contact.

Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Call a poison control center or doctor for treatment advice.

Ingestion.

Do not induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person. If swallowed, call a poison control center or doctor immediately.

Symptoms.

See Section 2 and Section 11, Toxicological effects for description of potential symptoms.

Notes to physician.

Treat symptomatically.

5. Fire-fighting Measures

Extinguishing media.**Suitable extinguishing media.**

Use: Dry powder. Alcohol-resistant foam. Carbon dioxide (CO₂). Water may be used to cool and prevent the rupture of containers that are exposed to the heat from a fire.

Extinguishing media which shall not be used for safety reasons.

Water may be unsuitable for extinguishing fires.

Special hazards arising from the substance or mixture.

Vapors may travel to areas away from work site before igniting/flashing back to vapor source. Thermal decomposition can lead to release of irritating and toxic gases and vapors. Most vapors are heavier than air. Vapors may spread along ground and collect in low or confined areas (sewers, basements, tanks). Vapors may travel to source of ignition and flash back. Air/vapor mixtures may explode when ignited. Containers may explode when heated.

Advice for firefighters.

Evacuate personnel to safe areas.

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures.**Personal precautions.**

Avoid contact with skin, eyes and clothing. Ensure adequate ventilation, especially in confined areas. All equipment used when handling the product must be grounded. Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Wear protective gloves/clothing and eye/face protection. Stop all work that requires a naked flame, stop all vehicles, stop all machines and equipment that may cause sparks or flames. Do not breathe vapors or spray mist. Avoid exceeding of the given occupational exposure limits (see section 8). Thoroughly decontaminate all protective equipment after use.

Advice for emergency responders.

Refer to protective measures listed in sections 7 and 8. Use personal protection recommended in Section 8.

Environmental precautions.

Prevent further leakage or spillage if safe to do so. Do not allow material to contaminate ground water system. Prevent entry into waterways, sewers, basements or confined areas. See Section 12 for additional Ecological information.

Methods and materials for containment and cleaning up.**Methods for Containment.**

Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Prevent further leakage or spillage if safe to do so. Pick up and transfer to properly labeled containers. Clean contaminated surface thoroughly. Ground and bond containers when transferring material. Take precautionary measures against static discharges. Use personal protective equipment. Remove all sources of ignition.

Methods for cleaning up.

Prevent further leakage or spillage if safe to do so. Keep away from open flames, hot surfaces and sources of ignition. Keep in suitable and closed containers for disposal. All equipment used when handling the product must be grounded. Keep combustibles (wood, paper, oil, etc) away from spilled material. Ventilate the area. Use personal protective equipment as required. Shut off ignition sources; including electrical equipment and flames. Clean contaminated objects and areas thoroughly while observing environmental regulations. Never return spills in original containers for re-use.

Reference to other sections.

See section 8 for more information.

7. Handling and Storage

Conditions for safe storage, including any incompatibilities.

Advice on safe handling.

Avoid contact with skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice. Keep away from open flames, hot surfaces and sources of ignition. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose container to heat, flame, sparks, static electricity, or other sources of ignition. Wash hands before breaks and immediately after handling the product. All equipment used when handling the product must be grounded. Take precautionary measures against static discharges. Do not breathe vapors or spray mist. Use according to package label instructions. Ground and bond containers when transferring material.

Hygiene measures.

Handle in accordance with good industrial hygiene and safety practice for diagnostics. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use. Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Storage Conditions.

Keep container closed when not in use. Keep in properly labeled containers. Keep containers tightly closed in a dry, cool and well-ventilated place. Store in accordance with local regulations. Keep from freezing. Keep away from food, drink and animal feedingstuffs. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

8. Exposure Controls/Personal Protection

Ingredients with Occupational Exposure Limits

<u>Chemical Name</u>	<u>ACGIH TLV-TWA</u>	<u>ACGIH-TLV STEL</u>	<u>OSHA PEL-TWA</u>	<u>OSHA PEL-CEILING</u>
Calcium carbonate (Limestone)	N.E.	N.E.	15 mg/m ³	N.E.
XYLENE	20 ppm	N.E.	100 ppm	N.E.
Barium Sulfate	5 mg/m ³	N.E.	15 mg/m ³	N.E.
Talc	2 mg/m ³	N.E.	20 mppcf	N.E.
Ethyl Benzene	20 ppm	N.E.	100 ppm	N.E.
Carbon black	3 mg/m ³	N.E.	3.5 mg/m ³	N.E.
Methyl isobutyl ketone	20 ppm	75 ppm	100 ppm	N.E.
Toluene	20 ppm	N.E.	200 ppm	300 ppm
Crystalline silica (Quartz) (Respirable)	0.025 mg/m ³	N.E.	50 µg/m ³	N.E.

TLV = Threshold Limit Value TWA = Time Weighted Average PEL = Permissible Exposure Limit STEL = Short-Term Exposure Limit N.E. = Not Established

Engineering Measures.

Ensure adequate ventilation, especially in confined areas. Apply technical measures to comply with the occupational exposure limits.

Personal protective equipment.

Eye/Face Protection.

If splashes are likely to occur, wear: Face-shield. Safety glasses with side-shields. Tightly fitting safety goggles.

Skin and body protection.

Use: Long sleeved clothing. Protective shoes or boots. Solvent-resistant gloves. Solvent-resistant apron and boots. Wear impervious gloves and/or clothing if needed to prevent contact with the material. Gloves must be inspected prior to use. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion. Remove and wash contaminated clothing before re-use.

Respiratory protection.

In case of inadequate ventilation wear respiratory protection. If exposure limits are exceeded or irritation is experienced, respiratory protection should be worn. Respiratory protection must be provided in accordance with current local regulations.

9. Physical and chemical properties.

Information on basic physical and chemical properties.

Physical state	Liquid
Appearance	No Information
Color	Black
Odor	No Information
Odor Threshold	No Information
pH	No Information
Melting/freezing point., °C (°F)	No Information
Flash Point., °C (°F)	18 (64.40)
Boiling point/boiling range., °C (°F)	119 - 3,600 (246.2 - 6512)
Evaporation rate	No Information
Explosive properties.	No Information
Vapor pressure.	No Information
Vapor density.	No Information
Specific Gravity. (g/cm ³)	1.521
Water solubility.	No Information
Partition coefficient.	No Information
Autoignition temperature., °C	No Information
Decomposition Temperature °C.	No Information
Viscosity, kinematic.	> 22mm ² /sec

Other information.

Volatile organic compounds (VOC) content.	301 g/L
Density, lb/gal	12.666

10. Stability and Reactivity

Reactivity.

Stable under normal conditions.

Chemical stability.

Stable under recommended storage conditions.

Possibility of hazardous reactions.

None known based on information supplied.

Conditions to Avoid.

Heat (temperatures above flash point), sparks, ignition points, flames, static electricity. Keep away from heat and sources of ignition. Do not freeze.

Incompatible Materials.

None known based on information supplied.

Hazardous Decomposition Products.

Thermal decomposition can lead to release of irritating gases and vapours. Possible formation of carbon oxides, nitrogen oxides, and hazardous organic compounds.

11. Toxicological Information

Information on toxicological effects.

Acute toxicity.

Product Information

No Information

The following values are calculated based on chapter 3.1 of the GHS document.

ATEmix (oral)	10,320.6 mg/kg
ATEmix (dermal)	15,786.1 mg/kg
ATEmix (inhalation - dust/mist)	4.59 mg/l

Component Information.

<u>CAS-No.</u>	<u>Chemical Name</u>	<u>LD50 Oral</u>	<u>LD50 Dermal</u>	<u>LC50 Inhalation</u>
1330-20-7	XYLENE	3500 mg/kg Rat	>4350 mg/kg Rabbit	29.08 mg/L Rat (Vapor)
100-41-4	Ethyl Benzene	3500 mg/kg Rat	15400 mg/kg Rabbit	NA (Dust)
1333-86-4	Carbon black	>10000 mg/kg Rat	N.I.	N.I.
108-10-1	Methyl isobutyl ketone	2080	3000	> 2000 ppm (Rat) 4 h (Vapor)
108-88-3	Toluene	2600 mg/kg Rat	12000 mg/kg Rabbit	12.5 mg/L Rat (Vapor)
8001-78-3	Hydrogenated Castor Oil	>10000 mg/kg Rat	N.I.	N.I.

N.I. = No Information

Skin corrosion/irritation.

SKIN IRRITANT.

Eye damage/irritation.

No Information

Respiratory or skin sensitization.

No Information

Ingestion.

May be harmful if swallowed.

Germ cell mutagenicity.

No Information

Carcinogenicity.

No Information

<u>CAS-No.</u>	<u>Chemical Name</u>	<u>IARC</u>	<u>NTP</u>	<u>OSHA</u>
1330-20-7	XYLENE	IARC Group 3	-	-
14807-96-6	Talc	IARC Group 3	-	-
100-41-4	Ethyl Benzene	IARC Group 2B	-	-
1333-86-4	Carbon black	IARC Group 2B	-	-
108-10-1	Methyl isobutyl ketone	IARC Group 2B	-	-
108-88-3	Toluene	IARC Group 3	-	-
14808-60-7	Crystalline silica (Quartz) (Respirable)	IARC Group 1	NTP Known Human Carcinogen	-

Reproductive toxicity.

No Information

Specific target organ systemic toxicity (single exposure).

No Information

Specific target organ systemic toxicity (repeated exposure).

May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard.

No Information

Primary Route(s) of Entry

Inhalation

12. Ecological Information

Toxicity.

66.52% of the mixture consists of ingredient(s) of unknown aquatic toxicity

Ecotoxicity effects.

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates
XYLENE 1330-20-7	-	LC50 96 h Pimephales promelas 13.4 mg/L, LC50 96 h Oncorhynchus mykiss 2.661 - 4.093 mg/L, LC50 96 h Oncorhynchus mykiss 13.5 - 17.3 mg/L, LC50 96 h Lepomis macrochirus 13.1 - 16.5 mg/L, LC50 96 h Lepomis macrochirus 19 mg/L, LC50 96 h Lepomis macrochirus 7.711 - 9.591 mg/L, LC50 96 h Pimephales promelas 23.53 - 29.97 mg/L, LC50 96 h Cyprinus carpio 780 mg/L, LC50 96 h Cyprinus carpio >780 mg/L, LC50 96 h Poecilia reticulata 30.26 - 40.	EC50 48 h water flea 3.82 mg/L, LC50 48 h Gammarus lacustris 0.6 mg/L
Talc 14807-96-6	-	LC50 96 h Brachydanio rerio >100 g/L	-
Ethyl Benzene 100-41-4	EC50 72 h Pseudokirchneriella subcapitata 4.6 mg/L, EC50 96 h Pseudokirchneriella subcapitata >438 mg/L, EC50 72 h Pseudokirchneriella subcapitata 2.6 - 11.3 mg/L, EC50 96 h Pseudokirchneriella subcapitata 1.7 - 7.6 mg/L	LC50 96 h Oncorhynchus mykiss 11.0 - 18.0 mg/L, LC50 96 h Oncorhynchus mykiss 4.2 mg/L, LC50 96 h Pimephales promelas 7.55 - 11 mg/L, LC50 96 h Lepomis macrochirus 32 mg/L, LC50 96 h Pimephales promelas 9.1 - 15.6 mg/L, LC50 96 h Poecilia reticulata 9.6 mg/L	EC50 48 h Daphnia magna 1.8 - 2.4 mg/L
Methyl isobutyl ketone 108-10-1	EC50 96 h Pseudokirchneriella subcapitata 400 mg/L	LC50 96 h Pimephales promelas 496 - 514 mg/L	EC50 48 h Daphnia magna 170 mg/L
Toluene 108-88-3	EC50 96 h Pseudokirchneriella subcapitata >433 mg/L, EC50 72 h Pseudokirchneriella subcapitata 12.5 mg/L	LC50 96 h Pimephales promelas 15.22 - 19.05 mg/L, LC50 96 h Pimephales promelas 12.6 mg/L, LC50 96 h Oncorhynchus mykiss 5.89 - 7.81 mg/L, LC50 96 h Oncorhynchus mykiss 14.1 - 17.16 mg/L, LC50 96 h Oncorhynchus mykiss 5.8 mg/L, LC50 96 h Lepomis macrochirus 11.0 - 15.0 mg/L, LC50 96 h Oryzias latipes 54 mg/L, LC50 96 h Poecilia reticulata 28.2 mg/L, LC50 96 h Poecilia reticulata 50.87 - 70.34 mg/L	EC50 48 h Daphnia magna 5.46 - 9.83 mg/L, EC50 48 h Daphnia magna 11.5 mg/L
Hydrogenated Castor Oil 8001-78-3	-	LC50 96 h Brachydanio rerio >10000 mg/L	-

Persistence and degradability.

No data are available on the product itself.

Bioaccumulative potential.

Discharge into the environment must be avoided.

<u>CAS-No.</u>	<u>Chemical Name</u>	<u>log POW</u>
1330-20-7	XYLENE	2.77 - 3.15
100-41-4	Ethyl Benzene	3.6
108-10-1	Methyl isobutyl ketone	1.9
108-88-3	Toluene	2.73

Mobility in soil.

No information

Other adverse effects.

No information

13. Disposal Considerations

Waste Disposal Guidance.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport Information

DOT

Shipping Name: Paint
 Hazard Class: 3
 UN/NA Number: 1263
 Packing Group: II
 Additional Information: LTD QTY EXCEPTION: This product may be reclassified as "limited quantity" per 49 CFR 173.150 (b)(2) and 49 CFR 172 Special Provision 149.

IMDG

Proper Shipping Name: Paint
 Hazard Class: 3
 UN Number: 1263
 Packing Group: II
 Additional Information: May be reclassified as limited quantity.

IATA

Proper Shipping Name: UN1263, Paint
 Hazard Class: 3
 Packing Group: II
 Additional Information: May be reclassified as limited quantity.

15. Regulatory Information

International Inventories:

TSCA	Complies
DSL	-
DSL/NDSL	-
EINECS/ELINCS	-
ENCS	-
IECSC	-
KECI	-
PICCS	-
AIIC	-
NZIoC	-
TCSI	

TSCA	United States Toxic Substances Control Act Section 8(b) Inventory.
DSL	Canadian Domestic Substances List.
DSL/NDL	Canadian Domestic Substances List/Canadian Non-Domestic Substances List
EINECS/ELINCS	European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances.
ENCS	Japan Existing and New Chemical Substances.
IECSC	China Inventory of Existing Chemical Substances.
KECL	Korean Existing and Evaluated Chemical Substances.
PICCS	Philippines Inventory of Chemicals and Chemical Substances.
AIIC	Australian Inventory of Chemical Substances.
NZIoC	New Zealand Inventory of Chemicals.
TCSI	Taiwan Chemical Substance Inventory

U.S. Federal Regulations:

SARA SECTION 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372: .

<u>Chemical Name</u>	<u>CAS-No.</u>	<u>Weight Percent</u>
XYLENE	1330-20-7	10-25
Ethyl Benzene	100-41-4	2.5-10
Methyl isobutyl ketone	108-10-1	0.1-1.0

TOXIC SUBSTANCES CONTROL ACT 12(b):

This product does not contain any chemicals that are subject to the reporting requirements of TSCA 12(b).

ADDITIONAL INFORMATION

Additional Information - Sxn 15: No Information

CALIFORNIA PROPOSITION 65 CARCINOGENS



WARNING

Warning: The following ingredients present in the product are known to the state of California to cause Cancer:

<u>Chemical Name</u>	<u>CAS-No.</u>
Ethyl Benzene	100-41-4
Carbon black	1333-86-4
Methyl isobutyl ketone	108-10-1
Crystalline silica (Quartz) (Respirable)	14808-60-7
Benzene, (1-methylethyl)-	98-82-8

CALIFORNIA PROPOSITION 65 REPRODUCTIVE TOXINS



WARNING

Warning: The following ingredients present in the product are known to the state of California to cause birth defects, or other reproductive hazards.

<u>Chemical Name</u>	<u>CAS-No.</u>
Methyl isobutyl ketone	108-10-1
Toluene	108-88-3

NOTICE

Constituents of this product may include crystalline silica which, if inhalable, may cause silicosis, a form of progressive pulmonary fibrosis. Inhalable crystalline silica is listed by IARC as a group I carcinogen (lung) based on sufficient evidence in occupationally exposed humans and sufficient evidence in animals. Crystalline silica is also listed by the NTP as a known human carcinogen. Constituents may also contain asbestiform or non-asbestiform tremolite or other silicates as impurities, and above de minimis exposure to these impurities in inhalable form may be carcinogenic or cause other serious lung problems.

16. Other Information

Revision Date: 8/12/2024 **Supersedes Date:** 7/24/2024

Reason for revision: Revision Statement(s) Changed

Datasheet produced by: Regulatory Department

HMIS Ratings:

Health:	2*	Flammability:	4	Physical Hazard:	1	Personal Protection:	X
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NFPA Ratings:

Health:	2*	Flammability:	4	Instability:	1	Physical & Chemical:	---
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Legend: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined, N.I. - No Information

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

1. Identification

Product Information.	912231101B
Product Name:	Ramuc HB31 Epoxy Part B
Recommended Use.	Paints
Uses advised against.	Read label instructions and SDS
Supplier.	Modern Recreational Technologies, Inc. 2220 Highway 70 SE., Suite 100 Hickory, NC 28602 800-728-8258
Emergency telephone number.	Chemtrec: +1-800-424-9300 USA Chemtrec: +1 703-527-3887 ex-USA 24 hrs./day, 7 days/week

2. Hazards Identification

GHS Classification in accordance with 29 CFR 1910.1200

Flammable Liquid, category 3
Reproductive Toxicity, category 2
STOT, single exposure, category 3, RTI
STOT, single exposure, category 3, NE
STOT, repeated exposure, category 2
Skin Irritation, category 2
Serious Eye Damage, category 1
Skin Sensitizer, category 1

GHS Pictograms



Signal Word

Danger

Unknown Acute Toxicity

22.0% of the mixture consists of ingredient(s) of unknown acute toxicity

HAZARD STATEMENTS

Flammable liquid and vapor.
Causes skin irritation.
May cause an allergic skin reaction.
Causes serious eye damage.
May cause respiratory irritation.
May cause drowsiness or dizziness.
Suspected of damaging fertility or the unborn child.
May cause damage to organs through prolonged or repeated exposure.

Precautionary Statements - Prevention.

Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Keep away from heat, sparks, open flames, hot surfaces. No smoking.

Ground/bond container and receiving equipment.
 Use explosion-proof electrical/ventilating/lighting/equipment.
 Use only non-sparking tools.
 Take precautionary measures against static discharge.
 Do not breathe dust/fume/gas/mist/ vapors/spray.
 Wash face and hands and any exposed skin thoroughly after handling.
 Use only outdoors or in a well-ventilated area.
 Wear protective gloves, protective clothing, eye protection, face protection

Precautionary Statements - Response.

If on skin: Wash with plenty of water.
 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
 If inhaled: Remove person to fresh air and keep comfortable for breathing.
 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 If exposed or concerned: Get medical advice/attention.
 Immediately call a poison center or doctor.
 Specific treatment (If applicable, see label for any additional instructions).
 If skin irritation or rash occurs: Get medical advice/attention.
 Take off contaminated clothing and wash it before reuse.
 In case of fire: Use CO₂ dry chemical or foam to extinguish.

Precautionary Statements - Storage.

Store in a well-ventilated place. Keep container tightly closed.
 Store in a well-ventilated place. Keep cool.
 Store locked up.

Precautionary Statements - Disposal.

Dispose of contents in accordance with local, regional, national, international regulations.

3. Composition/Information on Ingredients

<u>Chemical Name</u>	<u>CAS-No.</u>	<u>Wt. %</u>
1-Butanol	71-36-3	10-25
XYLENE	1330-20-7	10-25
Ethyl Benzene	100-41-4	1.0-2.5
TRIETHYLENETETRAMINE	112-24-3	1.0-2.5
Toluene	108-88-3	0.1-1.0

The exact percentage (concentration) of composition has been withheld as a trade secret.

4. First-aid Measures

Description of first-aid measures.

General advice.

Move victim to a safe isolated area. When symptoms persist or in all cases of doubt seek medical advice.
 Call a poison control center or doctor for treatment advice.

Inhalation.

Move to fresh air. Apply artificial respiration if victim is not breathing. Call a poison control center or doctor for treatment advice.

Skin contact.

Wash off immediately with soap and plenty of water. Remove all contaminated clothes and shoes. Remove and wash contaminated clothing before re-use. Call a poison control center or doctor for treatment advice.

Eye contact.

Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Call a poison control center or doctor for treatment advice.

Ingestion.

Do not induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person. If swallowed, call a poison control center or doctor immediately.

Symptoms.

See Section 2 and Section 11, Toxicological effects for description of potential symptoms.

Notes to physician.

Treat symptomatically.

5. Fire-fighting Measures

Extinguishing media.

Suitable extinguishing media.

Use: Dry powder. Alcohol-resistant foam. Carbon dioxide (CO₂). Water may be used to cool and prevent the rupture of containers that are exposed to the heat from a fire.

Extinguishing media which shall not be used for safety reasons.

Water may be unsuitable for extinguishing fires.

Special hazards arising from the substance or mixture.

Vapors may travel to areas away from work site before igniting/flashing back to vapor source. Thermal decomposition can lead to release of irritating and toxic gases and vapors. Most vapors are heavier than air. Vapors may spread along ground and collect in low or confined areas (sewers, basements, tanks). Vapors may travel to source of ignition and flash back. Air/vapor mixtures may explode when ignited. Containers may explode when heated.

Advice for firefighters.

Evacuate personnel to safe areas.

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures.

Personal precautions.

Avoid contact with skin, eyes and clothing. Ensure adequate ventilation, especially in confined areas. All equipment used when handling the product must be grounded. Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Wear protective gloves/clothing and eye/face protection. Stop all work that requires a naked flame, stop all vehicles, stop all machines and equipment that may cause sparks or flames. Do not breathe vapors or spray mist. Avoid exceeding of the given occupational exposure limits (see section 8). Thoroughly decontaminate all protective equipment after use.

Advice for emergency responders.

Refer to protective measures listed in sections 7 and 8. Use personal protection recommended in Section 8.

Environmental precautions.

Prevent further leakage or spillage if safe to do so. Do not allow material to contaminate ground water system. Prevent entry into waterways, sewers, basements or confined areas. See Section 12 for additional Ecological information.

Methods and materials for containment and cleaning up.

Methods for Containment.

Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Prevent further leakage or spillage if safe to do so. Pick up and transfer to properly labeled containers. Clean contaminated surface thoroughly. Ground and bond containers when transferring material. Take precautionary measures against static discharges. Use personal protective equipment. Remove all sources of ignition.

Methods for cleaning up.

Prevent further leakage or spillage if safe to do so. Keep away from open flames, hot surfaces and sources of ignition. Keep in suitable and closed containers for disposal. All equipment used when handling the product must be grounded. Keep combustibles (wood, paper, oil, etc) away from spilled material. Ventilate the area. Use personal protective equipment as required. Shut off ignition sources; including electrical equipment and flames. Clean contaminated objects and areas thoroughly while observing environmental regulations. Never return spills in original containers for re-use.

Reference to other sections.

See section 8 for more information.

7. Handling and Storage

Conditions for safe storage, including any incompatibilities.

Advice on safe handling.

Avoid contact with skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice. Keep away from open flames, hot surfaces and sources of ignition. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose container to heat, flame, sparks, static electricity, or other sources of ignition. Wash hands before breaks and immediately after handling the product. All equipment used when handling the product must be grounded. Take precautionary measures against static discharges. Do not breathe vapors or spray mist. Use according to package label instructions. Ground and bond containers when transferring material.

Hygiene measures.

Handle in accordance with good industrial hygiene and safety practice for diagnostics. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use. Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Storage Conditions.

Keep container closed when not in use. Keep in properly labeled containers. Keep containers tightly closed in a dry, cool and well-ventilated place. Store in accordance with local regulations. Keep from freezing. Keep away from food, drink and animal feedings. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

8. Exposure Controls/Personal Protection

Ingredients with Occupational Exposure Limits

<u>Chemical Name</u>	<u>ACGIH TLV-TWA</u>	<u>ACGIH-TLV STEL</u>	<u>OSHA PEL-TWA</u>	<u>OSHA PEL-CEILING</u>
1-Butanol	20 ppm	N.E.	100 ppm	N.E.
XYLENE	20 ppm	N.E.	100 ppm	N.E.
Ethyl Benzene	20 ppm	N.E.	100 ppm	N.E.
Toluene	20 ppm	N.E.	200 ppm	300 ppm

TLV = Threshold Limit Value TWA = Time Weighted Average PEL = Permissible Exposure Limit STEL = Short-Term Exposure Limit N.E. = Not Established

Engineering Measures.

Ensure adequate ventilation, especially in confined areas. Apply technical measures to comply with the occupational exposure limits.

Personal protective equipment.

Eye/Face Protection.

If splashes are likely to occur, wear: Face-shield. Safety glasses with side-shields. Tightly fitting safety goggles.

Skin and body protection.

Use: Long sleeved clothing. Protective shoes or boots. Solvent-resistant gloves. Solvent-resistant apron and boots. Wear impervious gloves and/or clothing if needed to prevent contact with the material. Gloves must be inspected prior to use. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion. Remove and wash contaminated clothing before re-use.

Respiratory protection.

In case of inadequate ventilation wear respiratory protection. If exposure limits are exceeded or irritation is experienced, respiratory protection should be worn. Respiratory protection must be provided in accordance with current local regulations.

9. Physical and chemical properties.

Information on basic physical and chemical properties.

Physical state	Liquid
Appearance	No Information
Color	Amber
Odor	No Information
Odor Threshold	No Information
pH	No Information

Melting/freezing point., °C (°F)	No Information
Flash Point., °C (°F)	25 (77.00)
Boiling point/boiling range., °C (°F)	119 - 267 (246.2 - 512.6)
Evaporation rate	No Information
Explosive properties.	No Information
Vapor pressure.	No Information
Vapor density.	No Information
Specific Gravity. (g/cm ³)	0.948
Water solubility.	No Information
Partition coefficient.	No Information
Autoignition temperature., °C	No Information
Decomposition Temperature °C.	No Information
Viscosity, kinematic.	> 22mm ² /s

Other information.

Volatile organic compounds (VOC) content.	326 g/L
Density, lb/gal	7.897

10. Stability and Reactivity

Reactivity.

Stable under normal conditions.

Chemical stability.

Stable under recommended storage conditions.

Possibility of hazardous reactions.

None known based on information supplied.

Conditions to Avoid.

Heat (temperatures above flash point), sparks, ignition points, flames, static electricity. Keep away from heat and sources of ignition. Do not freeze.

Incompatible Materials.

None known based on information supplied.

Hazardous Decomposition Products.

Thermal decomposition can lead to release of irritating gases and vapours. Possible formation of carbon oxides, nitrogen oxides, and hazardous organic compounds.

11. Toxicological Information

Information on toxicological effects.**Acute toxicity.****Product Information**

No Information

The following values are calculated based on chapter 3.1 of the GHS document.

ATEmix (oral)	2,998.9 mg/kg
ATEmix (dermal)	10,790.8 mg/kg
ATEmix (inhalation - dust/mist)	9.40 mg/l

Component Information.

<u>CAS-No.</u>	<u>Chemical Name</u>	<u>LD50 Oral</u>	<u>LD50 Dermal</u>	<u>LC50 Inhalation</u>
71-36-3	1-Butanol	700 mg/kg Rat	3402 mg/kg Rabbit	>17.76 mg/L Rat (Vapor)
1330-20-7	XYLENE	3500 mg/kg Rat	>4350 mg/kg Rabbit	29.08 mg/L Rat (Vapor)
100-41-4	Ethyl Benzene	3500 mg/kg Rat	15400 mg/kg Rabbit	NA (Dust)

112-24-3	TRIETHYLENETETRAMINE	1716.2 mg/kg Rat	1720 mg/kg, 1465.4 mg/kg Rabbit	N.I.
108-88-3	Toluene	2600 mg/kg Rat	12000 mg/kg Rabbit	12.5 mg/L Rat (Vapor)

N.I. = No Information

Skin corrosion/irritation.

SKIN IRRITANT.

Eye damage/irritation.

No Information

Respiratory or skin sensitization.

No Information

Ingestion.

May be harmful if swallowed.

Germ cell mutagenicity.

No Information

Carcinogenicity.

No Information

<u>CAS-No.</u>	<u>Chemical Name</u>	<u>IARC</u>	<u>NTP</u>	<u>OSHA</u>
1330-20-7	XYLENE	IARC Group 3	-	-
100-41-4	Ethyl Benzene	IARC Group 2B	-	-
108-88-3	Toluene	IARC Group 3	-	-

Reproductive toxicity.

No Information

Specific target organ systemic toxicity (single exposure).

No Information

Specific target organ systemic toxicity (repeated exposure).

May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard.

No Information

Primary Route(s) of Entry

Inhalation

12. Ecological Information

Toxicity.

0.00% of the mixture consists of ingredient(s) of unknown aquatic toxicity

Ecotoxicity effects.

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates
1-Butanol 71-36-3	EC50 96 h Desmodesmus subspicatus >500 mg/L, EC50 72 h Desmodesmus subspicatus >500 mg/L	LC50 96 h Pimephales promelas 1730 - 1910 mg/L, LC50 96 h Pimephales promelas 1740 mg/L, LC50 96 h Lepomis macrochirus 100000 - 500000 µg/L, LC50 96 h Pimephales promelas 1910000 µg/L	EC50 48 h Daphnia magna 1983 mg/L, EC50 48 h Daphnia magna 1897 - 2072 mg/L

XYLENE 1330-20-7	-	LC50 96 h Pimephales promelas 13.4 mg/L, LC50 96 h Oncorhynchus mykiss 2.661 - 4.093 mg/L, LC50 96 h Oncorhynchus mykiss 13.5 - 17.3 mg/L, LC50 96 h Lepomis macrochirus 13.1 - 16.5 mg/L, LC50 96 h Lepomis macrochirus 19 mg/L, LC50 96 h Lepomis macrochirus 7.711 - 9.591 mg/L, LC50 96 h Pimephales promelas 23.53 - 29.97 mg/L, LC50 96 h Cyprinus carpio 780 mg/L, LC50 96 h Cyprinus carpio >780 mg/L, LC50 96 h Poecilia reticulata 30.26 - 40.	EC50 48 h water flea 3.82 mg/L, LC50 48 h Gammarus lacustris 0.6 mg/L
Ethyl Benzene 100-41-4	EC50 72 h Pseudokirchneriella subcapitata 4.6 mg/L, EC50 96 h Pseudokirchneriella subcapitata >438 mg/L, EC50 72 h Pseudokirchneriella subcapitata 2.6 - 11.3 mg/L, EC50 96 h Pseudokirchneriella subcapitata 1.7 - 7.6 mg/L	LC50 96 h Oncorhynchus mykiss 11.0 - 18.0 mg/L, LC50 96 h Oncorhynchus mykiss 4.2 mg/L, LC50 96 h Pimephales promelas 7.55 - 11 mg/L, LC50 96 h Lepomis macrochirus 32 mg/L, LC50 96 h Pimephales promelas 9.1 - 15.6 mg/L, LC50 96 h Poecilia reticulata 9.6 mg/L	EC50 48 h Daphnia magna 1.8 - 2.4 mg/L
TRIETHYLENETETRAMINE 112-24-3	EC50 72 h Desmodesmus subspicatus 2.5 mg/L, EC50 72 h Pseudokirchneriella subcapitata 20 mg/L, EC50 96 h Pseudokirchneriella subcapitata 3.7 mg/L	LC50 96 h Poecilia reticulata 570 mg/L, LC50 96 h Pimephales promelas 495 mg/L	EC50 48 h Daphnia magna 31.1 mg/L
Toluene 108-88-3	EC50 96 h Pseudokirchneriella subcapitata >433 mg/L, EC50 72 h Pseudokirchneriella subcapitata 12.5 mg/L	LC50 96 h Pimephales promelas 15.22 - 19.05 mg/L, LC50 96 h Pimephales promelas 12.6 mg/L, LC50 96 h Oncorhynchus mykiss 5.89 - 7.81 mg/L, LC50 96 h Oncorhynchus mykiss 14.1 - 17.16 mg/L, LC50 96 h Oncorhynchus mykiss 5.8 mg/L, LC50 96 h Lepomis macrochirus 11.0 - 15.0 mg/L, LC50 96 h Oryzias latipes 54 mg/L, LC50 96 h Poecilia reticulata 28.2 mg/L, LC50 96 h Poecilia reticulata 50.87 - 70.34 mg/L	EC50 48 h Daphnia magna 5.46 - 9.83 mg/L, EC50 48 h Daphnia magna 11.5 mg/L

Persistence and degradability.

No data are available on the product itself.

Bioaccumulative potential.

Discharge into the environment must be avoided.

<u>CAS-No.</u>	<u>Chemical Name</u>	<u>log POW</u>
71-36-3	1-Butanol	1
1330-20-7	XYLENE	2.77 - 3.15
100-41-4	Ethyl Benzene	3.6
112-24-3	TRIETHYLENETETRAMINE	-1.4
108-88-3	Toluene	2.73

Mobility in soil.

No information

Other adverse effects.

No information

13. Disposal Considerations**Waste Disposal Guidance.**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport Information

DOT

Shipping Name: Paint
Hazard Class: 3
UN/NA Number: 1263
Packing Group: III
Additional Information: LTD QTY EXCEPTION: This product may be reclassified as "limited quantity" per 49 CFR 173.150 (b)(3).

IMDG

Proper Shipping Name: Paint
Hazard Class: 3
UN Number: 1263
Packing Group: III
Additional Information: May be reclassified as limited quantity.

IATA

Proper Shipping Name: UN1263, Paint
Hazard Class: 3
Packing Group: III
Additional Information: May be reclassified as limited quantity.

15. Regulatory Information

International Inventories:

TSCA	Complies
DSL	Complies
DSL/NDSL	Complies
EINECS/ELINCS	-
ENCS	-
IECSC	Complies
KECI	Complies
PICCS	Complies
AIC	Complies
NZIoC	Complies

TCSI

TSCA	United States Toxic Substances Control Act Section 8(b) Inventory.
DSL	Canadian Domestic Substances List.
DSL/NDSL	Canadian Domestic Substances List/Canadian Non-Domestic Substances List
EINECS/ELINCS	European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances.
ENCS	Japan Existing and New Chemical Substances.
IECSC	China Inventory of Existing Chemical Substances.
KECL	Korean Existing and Evaluated Chemical Substances.
PICCS	Philippines Inventory of Chemicals and Chemical Substances.
AIC	Australian Inventory of Chemical Substances.
NZIoC	New Zealand Inventory of Chemicals.
TCSI	Taiwan Chemical Substance Inventory

U.S. Federal Regulations:

SARA SECTION 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372: .

<u>Chemical Name</u>	<u>CAS-No.</u>	<u>Weight Percent</u>
1-Butanol	71-36-3	10-25
XYLENE	1330-20-7	10-25
Ethyl Benzene	100-41-4	1.0-2.5

TOXIC SUBSTANCES CONTROL ACT 12(b):

This product does not contain any chemicals that are subject to the reporting requirements of TSCA 12(b).

ADDITIONAL INFORMATION

Additional Information - Sxn 15: No Information

CALIFORNIA PROPOSITION 65 CARCINOGENS**WARNING**

Warning: The following ingredients present in the product are known to the state of California to cause Cancer:

<u>Chemical Name</u>	<u>CAS-No.</u>
Ethyl Benzene	100-41-4
Benzene, (1-methylethyl)-	98-82-8

CALIFORNIA PROPOSITION 65 REPRODUCTIVE TOXINS**WARNING**

Warning: The following ingredients present in the product are known to the state of California to cause birth defects, or other reproductive hazards.

<u>Chemical Name</u>	<u>CAS-No.</u>
Toluene	108-88-3

16. Other Information

Revision Date:	8/12/2024	Supersedes Date:	7/30/2024
Reason for revision:	Substance and/or Product Properties Changed in Section(s): 01 - Product Information Revision Statement(s) Changed		
Datasheet produced by:	Regulatory Department		

HMIS Ratings:

Health:	2*	Flammability:	3	Physical Hazard:	0	Personal Protection:	X
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NFPA Ratings:

Health:	2*	Flammability:	3	Instability:	0	Physical & Chemical:	---
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Legend: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined, N.I. - No Information

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.