SAFETY DATA SHEET
Exxene BT-Series Conductive Coatings

Revision Date: 06/19/2026

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Exxene BT-Series Conductive Coatings: BT-380P, BT-400, BT-512, BT-700
PRODUCT USE: Thermal-cure, anti-static coating for plastic surfaces.
MANUFACTURER: Exxene Corporation, 5939 Holly Road, Corpus Christi, TX 78412, USA | 1-361-991-8391
EMERGENCY: For hazardous materials incident - spill, leak, fire, exposure, or accident - call CHEMTREC 1-800-424-9300
E-MAIL: info@Exxene.com

SECTION 2 - HAZARDS IDENTIFICATION

Hazard class	Category
Flammable liquids	Category 3
Serious eye damage/eye irritation	Category 2A
Specific target organ toxicity - single exposure (respiratory irritation)	Category 3
Reproductive toxicity	Category 1B

SIGNAL WORD
DANGER

- H226 Flammable liquid and vapor.
- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.
- H360 May damage fertility or the unborn child.

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 Keep container tightly closed.
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.
P261 Avoid breathing vapor or spray.
P264 Wash thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P353 IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if easy to do. Continue rinsing.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P370+P378 In case of fire: Use alcohol-resistant foam, dry chemical, carbon dioxide, or water spray.
P403+P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.
P501 Dispose of contents/container in accordance with applicable regulations.

Other hazards: Vapors may form explosive mixtures with air and may accumulate in low areas. N-methyl-2-pyrrolidone (NMP) can be absorbed through the skin; prevent skin contact.

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS No.	Concentration (wt%)
Isopropyl alcohol (2-propanol)	67-63-0	20-50
N-methyl-2-pyrrolidone (NMP)	872-50-4	3
Proprietary non-hazardous ingredients / water / binder	Mixture	Balance

Concentrations are expressed as weight percent. Exact percentages of proprietary non-hazardous components are withheld as a trade secret.

SECTION 4 - FIRST-AID MEASURES

EYE CONTACT: Immediately rinse cautiously with water for at least 15 minutes. Remove contact lenses if present and easy to do. Continue rinsing. Obtain medical attention if irritation persists or is severe.

SKIN CONTACT: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water. Because NMP may be absorbed through skin, obtain medical advice if exposure is significant or if exposed or concerned. Wash contaminated clothing before reuse.

INHALATION: Move person to fresh air and keep at rest in a position comfortable for breathing. Monitor breathing. If symptoms occur or the person feels unwell, call a poison center or physician. Provide oxygen or artificial respiration by trained personnel if necessary.

INGESTION: Rinse mouth. Do not induce vomiting unless directed by medical personnel. Never give anything by mouth to an unconscious person. Call a poison center or physician promptly.

MOST IMPORTANT SYMPTOMS: Eye and respiratory irritation; headache, dizziness, drowsiness, nausea, or central nervous system depression from solvent vapor. NMP presents a developmental/reproductive hazard.

NOTE TO PHYSICIAN: Treat symptomatically. Show this SDS to medical personnel.

SECTION 5 - FIRE-FIGHTING MEASURES

SUITABLE MEDIA: Alcohol-resistant foam, dry chemical, carbon dioxide, or water spray/fog.

UNSUITABLE MEDIA: Do not use a solid water jet; it may spread burning liquid.

SPECIFIC HAZARDS: Flammable liquid and vapor. Vapors may travel to an ignition source and flash back. Closed containers may rupture when heated.

COMBUSTION PRODUCTS: Carbon oxides, nitrogen oxides, formaldehyde, and other irritating or toxic fumes may be produced during fire or thermal decomposition.

FIREFIGHTER PROTECTION: Wear positive-pressure self-contained breathing apparatus and full protective clothing. Cool exposed containers with water spray. Prevent contaminated fire water from entering drains or waterways.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal precautions: Evacuate unnecessary personnel. Eliminate all ignition sources. Ventilate the area. Avoid breathing vapor or mist and avoid skin and eye contact. Wear appropriate PPE described in Section 8.

Environmental precautions: Prevent entry into drains, sewers, soil, or waterways. Notify appropriate authorities if a reportable release occurs.

Containment and cleanup: Stop leak if safe to do so. Contain with non-combustible absorbent material such as sand, earth, vermiculite, or diatomaceous earth. Collect in a closed, labeled container for disposal. Use non-sparking tools and explosion-proof equipment.

SECTION 7 - HANDLING AND STORAGE

HANDLING: Obtain special instructions before use. Use only with adequate ventilation. Avoid breathing vapor, mist, or spray and avoid contact with skin and eyes. Keep away from heat, sparks, flames, and hot surfaces. Ground/bond containers and equipment. Use non-sparking tools and explosion-proof electrical equipment. Do not eat, drink, or smoke when using this product.

STORAGE: Store locked up in a cool, dry, well-ventilated, fire-resistant area away from ignition sources and incompatible materials. Keep container tightly closed. Protect from direct sunlight and heat. Provide secondary containment where appropriate.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Component	ACGIH TLV-TWA	ACGIH STEL	OSHA PEL-TWA	Other guideline
Isopropyl alcohol	200 ppm	400 ppm	400 ppm	-
N-methyl-2-pyrrolidone	Not established	Not established	Not established	AIHA WEEL: 10 ppm (8-hr TWA); skin

ENGINEERING CONTROLS: Use local exhaust or general mechanical ventilation to keep airborne concentrations below applicable limits. Use explosion-proof ventilation. Provide eyewash and safety shower near the work area.

EYE/FACE: Chemical splash goggles. Add face shield when splash or high-volume exposure is possible.

SKIN/BODY: Wear protective clothing and chemical-resistant gloves with manufacturer permeation data demonstrating resistance to both NMP and isopropyl alcohol. Replace gloves immediately if damaged or contaminated.

RESPIRATORY: Normally not required with adequate ventilation. If exposure limits may be exceeded, use a NIOSH-approved respirator selected under a compliant respiratory-protection program. Use supplied air for emergencies or unknown concentrations.

HYGIENE: Wash hands and exposed skin after handling and before breaks. Remove contaminated clothing promptly. Do not take contaminated clothing home.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

The following are typical values from the existing BT-Series specification and may vary among BT-380P, BT-400, BT-512, and BT-700.

Property	Typical value	Property	Typical value
Appearance	Colorless liquid	Odor	Alcohol-like
pH	Varies: alkaline (BT-380P, BT-512); acidic (BT-400)	Odor threshold	3-610 ppm
Melting/freezing point	4 °C (reported)	Initial boiling range	82-100 °C
Flash point	24 °C (75 °F), TCC	Evaporation rate	21 (ether = 1)
Specific gravity	0.910 at 20 °C	Flammability limits	LEL 2%; UEL 12%
Vapor density	2.1 (air = 1)	Solubility	Completely miscible with water
Viscosity	<30 cP at 25 °C	Vapor pressure	44 hPa at 20 °C
Auto-ignition temperature	399 °C	Decomposition temperature	Not determined
VOC content	6.82 lb/gal (reported)	GHS flammable liquid category	Category 3
Partition coefficient	Not determined	Explosive properties	Vapor/air mixtures may be explosive

SECTION 10 - STABILITY AND REACTIVITY

REACTIVITY: No dangerous reaction known under normal conditions of use.

STABILITY: Stable under recommended storage and handling conditions. Hazardous polymerization is not expected.

AVOID: Heat, sparks, open flames, static discharge, high temperatures, and contact with incompatible materials.

INCOMPATIBLES: Strong oxidizing agents, strong acids, strong bases, peroxides, acid anhydrides, and acid chlorides.

DECOMPOSITION: Thermal decomposition or combustion may produce carbon oxides, nitrogen oxides, formaldehyde, and other acrid or toxic fumes.

SECTION 11 - TOXICOLOGICAL INFORMATION

LIKELY ROUTES: Inhalation, eye contact, skin contact, and ingestion.

INHALATION: May irritate the respiratory tract. High vapor concentrations may cause headache, dizziness, drowsiness, weakness, nausea, impaired coordination, or unconsciousness.

EYE CONTACT: Causes serious eye irritation with redness, tearing, and pain.

SKIN CONTACT: May cause irritation, redness, dryness, or defatting. NMP may be absorbed through the skin and contribute to systemic exposure.

INGESTION: May cause gastrointestinal irritation, nausea, vomiting, diarrhea, and central nervous system effects.

REPRODUCTIVE TOXICITY: Classified as Category 1B because the mixture contains 3% NMP, a presumed human reproductive toxicant. May damage fertility or the unborn child.

CHRONIC EFFECTS: Repeated or significant solvent exposure may affect the central nervous system. NMP exposure is associated with developmental and reproductive effects in animal studies.

CARCINOGENICITY: The disclosed ingredients are not identified as known or anticipated human carcinogens by NTP, IARC, or OSHA at reportable concentrations.

Component	Acute toxicity data
Isopropyl alcohol	Oral LD50 (rat): 5,045 mg/kg; inhalation LC50 (rat, 4 h): approximately 73 mg/L.
N-methyl-2-pyrrolidone	Causes skin and eye irritation and respiratory irritation; clear evidence of developmental/reproductive effects in animal studies.

SECTION 12 - ECOLOGICAL INFORMATION

No ecological test data are available for the finished mixture. Isopropyl alcohol is readily biodegradable and has low bioaccumulation potential. NMP is expected to have low persistence and low bioaccumulation potential. Prevent uncontrolled release to the environment.

ECOTOXICITY: Mixture data not available. Existing isopropyl-alcohol data indicate low acute aquatic toxicity at high concentrations.

PERSISTENCE: Components are expected to be readily or inherently biodegradable; mixture data not available.

BIOACCUMULATION: Low bioaccumulation potential is expected for the disclosed solvents.

MOBILITY: The product is water-miscible and may move readily in soil and water.

SECTION 13 - DISPOSAL CONSIDERATIONS

Dispose of product, absorbents, and contaminated packaging in accordance with federal, state, and local regulations. Do not discharge to drains or waterways. Do not reuse empty containers. Empty containers may retain flammable vapor and product residue; do not cut, weld, drill, grind, burn, or expose them to heat or ignition sources. Consult a licensed waste-disposal contractor and regulatory authority for waste classification.

SECTION 14 - TRANSPORT INFORMATION

Mode	UN number	Proper shipping name	Class	Packing group	Marine pollutant
U.S. DOT	UN1139	Coating solution	3	III	No
IATA	UN1139	Coating solution	3	III	No
IMDG	UN1139	Coating solution	3	III	No

Transport in accordance with all applicable regulations. Limited-quantity or other exceptions may apply depending on package size and mode.

SECTION 15 - REGULATORY INFORMATION

OSHA HAZCOM: Hazardous chemical. Classified for flammability, eye irritation, respiratory irritation, and reproductive toxicity.

EPCRA 302: No disclosed ingredient is listed as an Extremely Hazardous Substance.

EPCRA 311/312: Flammable; serious eye damage/eye irritation; specific target organ toxicity (single exposure); reproductive toxicity.

EPCRA 313 / TRI: N-methyl-2-pyrrolidone (CAS 872-50-4) is a listed toxic chemical and is present at 3%, above the 1% de minimis level. Isopropyl alcohol is listed only for facilities that manufacture it by the strong-acid process; that qualifier does not generally apply to processing or use and carries no supplier-notification requirement.

CERCLA: No disclosed component is individually listed with a CERCLA reportable quantity for this product.

CALIFORNIA PROP 65: WARNING: This product can expose you to N-methyl-2-pyrrolidone, which is known to the State of California to cause birth defects or other reproductive harm.

TSCA: The disclosed components are listed on or are in compliance with the U.S. TSCA Chemical Substance Inventory.

STATE RIGHT-TO-KNOW: N-methyl-2-pyrrolidone is listed by Massachusetts and Pennsylvania. Additional state requirements may apply.

WHMIS 2015: Flammable Liquid Category 3; Eye Irritation Category 2A; STOT - Single Exposure Category 3; Reproductive Toxicity Category 1B.

SECTION 16 - OTHER INFORMATION

REVISION DATE: June 19, 2026

REVISION SUMMARY: Added 3 wt% N-methyl-2-pyrrolidone. Added Reproductive Toxicity Category 1B, H360, the health-hazard pictogram, related precautionary statements, NMP exposure guidance, toxicological information, Proposition 65 language, and EPCRA Section 313 information. Corrected the flammable-liquid statement to H226 for Category 3 and identified H335 as STOT - Single Exposure Category 3.

REFERENCES: Existing Exxene BT-Series SDS dated 07/15/2021; Exxene N-methyl-2-pyrrolidone SDS dated 07/29/2021; OSHA 29 CFR 1910.1200 Appendices A and C; U.S. EPA List of Lists (April 2025); California OEHHA Proposition 65 listing for NMP.

INTENDED USE: Thermal-cure, anti-static coating for plastic surfaces.

DISCLAIMER: This product is intended for use by skilled individuals at their own risk. The information contained herein is based on data considered accurate according to the current state of knowledge and experience. No warranty, expressed or implied, is made regarding the accuracy or completeness of the information or the results obtained from use. This information does not constitute a guarantee of product properties. Exxene Corporation and its affiliates shall not be held liable for damage resulting from handling or contact with the product. Users are responsible for determining suitability and complying with applicable laws and regulations.