SECTION 1 — IDENTIFICATION

Product Name	RepelX™ Anti-Static Paint Additive
Product Code	RPL-32-001
Trade Name	RepelX™
Active Ingredient	Ethanaminium, 2-hydroxy-N,N-bis(2-hydroxyethyl)-N-methyl-, esters with C16–18 and C18-unsatd. fatty acids, Me sulfates
CAS No. (active)	1335202-95-3
Carrier Solvent	Propan-2-ol (isopropanol) — CAS 67-63-0
Composition	Approx. 90% active quaternary ammonium ester compound + approx. 10% isopropanol carrier (see Section 3)
Intended Use	Paint additive — mixed into **interior water-based latex and acrylic paints** at 1 fl oz per 1 US gallon to reduce static charge and dust attraction on painted surfaces. This product is an additive and is NOT a substitute for paint.
Restrictions on Use	Not for exterior use. Not for use in oil-based or solvent-based paints. Not for consumer ingestion. Not for application to skin, hair, or food-contact surfaces. **Keep out of reach of children.**
Manufacturer	RepelX LLC P.O. Box 5064, Woodbridge, CT 06525, USA contact@repelpaint.com | repelpaint.com
Emergency Tel.	**CHEMTREC: 1-800-424-9300** (24 hours/day, 7 days/week)

SECTION 2 — HAZARD(S) IDENTIFICATION

SIGNAL WORD: DANGER · GHS Pictograms: GHS02 (Flame) + GHS07 (Exclamation Mark)

GHS Classification (OSHA HazCom 2012):

Hazard Class	Category	H-Statement
Flammable Liquid	Category 2	H225 — Highly flammable liquid and vapor
Skin Corrosion / Irritation	Category 2	H315 — Causes skin irritation
Serious Eye Damage / Eye Irritation	Category 2A	H319 — Causes serious eye irritation

NFPA Rating (scale 0–4): Health = 2 | Fire = 3 | Reactivity = 0

HMIS Rating (scale 0–4): Health = 2 | Flammability = 3 | Physical Hazard = 0

Hazard Statements:

- H225 — Highly flammable liquid and vapor.
- H315 — Causes skin irritation.
- H319 — Causes serious eye irritation.

Precautionary Statements:

- P210 — Keep away from heat / sparks / open flames / hot surfaces. **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 only non-sparking tools.
- P243 — Take precautionary measures against static discharge.
- P264 — Wash thoroughly after handling.
- P280 — Wear protective gloves / protective clothing / eye protection / face protection.
- P302+P352 — IF ON SKIN: Wash with plenty of water.
- P303+P361+P353 — IF ON SKIN (or hair): Take off immediately all contaminated clothing; rinse skin with water/shower.
- P305+P351+P338 — IF IN EYES: Rinse cautiously with water for several minutes; remove contact lenses if present and easy to do; continue rinsing.
- P332+P313 — If skin irritation occurs: Get medical advice/attention.
- P337+P313 — If eye irritation persists: Get medical advice/attention.
- P362+P364 — Take off contaminated clothing and wash it before reuse.
- P370+P378 — In case of fire: Use CO■, dry chemical, alcohol-resistant foam, or water spray to extinguish.
- P403+P235 — Store in a well-ventilated place. Keep cool.
- P501 — Dispose of contents/container in accordance with local, state, and federal regulations.

Other Hazards: Vapors are heavier than air and may travel along the ground to a distant ignition source and flash back. Formation of explosive air/vapor mixtures is possible at temperatures above the flash point. Spilled product may form a slippery surface.

SECTION 3 — COMPOSITION / INFORMATION ON INGREDIENTS

Chemical characterization: Mixture of the substances listed below with non-hazardous additions.

Chemical Name	CAS Number	Concentration (in concentrate)	GHS Classification
Ethanaminium, 2-hydroxy-N,N-bis(2-hydroxyethyl)-N-methyl-, esters with C16–18 and C18-unsatd. fatty acids, Me sulfates	1335202-95-3	~ 90% w/w	Skin Irrit. 2 (H315), Eye Irrit. 2A (H319)
Propan-2-ol (isopropyl alcohol)	67-63-0	~ 10% w/w	Flam. Liq. 2 (H225), Eye Irrit. 2A (H319), STOT SE 3

Note: Concentrations shown describe the undiluted RepelX™ additive concentrate. When mixed per label directions (1 fl oz per 1 US gallon of paint, ~0.78% v/v), the active is present at substantially lower concentration in the finished paint mixture and the finished mixture is no longer classified as flammable.

SECTION 4 — FIRST-AID MEASURES

General	Immediately remove any clothing soiled by product. In case of irregular breathing or respiratory arrest, provide artificial respiration. Show this Safety Data Sheet to attending medical personnel.
Inhalation	Remove person to fresh air. Keep comfortable for breathing. In case of unconsciousness, place patient in stable side position. Seek medical attention if symptoms persist.
Skin Contact	Immediately remove contaminated clothing. Wash skin with plenty of water and soap. Rinse thoroughly. If skin irritation develops or persists, get medical advice/attention. Wash contaminated clothing before reuse.
Eye Contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.
Ingestion	Rinse mouth thoroughly with water. Do not induce vomiting unless directed by a poison center or doctor. If symptoms persist, consult a doctor. Never give anything by mouth to an unconscious person.
Key Symptoms	Skin irritation; serious eye irritation. Inhalation of high vapor concentrations may cause headache, dizziness, drowsiness, and respiratory irritation.
Medical Note	Treat symptomatically. Symptoms may be delayed.

SECTION 5 — FIRE-FIGHTING MEASURES

Flash Point	18°C (64.4°F) — Highly flammable liquid (Cat. 2)
Auto-Ignition	~ 220°C (~ 428°F)
Boiling Point	82°C (179.6°F)
Explosion Limits	Lower: 2 vol% | Upper: 12 vol%
Suitable Extinguishing Media	CO■, dry chemical extinguishing powder, alcohol-resistant foam, or water spray. **Do not use water jet** — may spread fire.
Special Hazards	Highly flammable. Vapors are heavier than air and may travel along the ground to a distant ignition source and flash back. Formation of explosive air/vapor mixtures possible. In case of fire, the following may be released: nitrogen oxides (NOx), carbon monoxide (CO).
Firefighter PPE	Self-contained breathing apparatus (SCBA) and full protective gear required. Cool closed containers exposed to fire with water spray. Dispose of fire debris and contaminated firefighting water per official regulations.

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Personal Precautions	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Use only explosion-proof equipment. Ensure adequate ventilation. Wear full protective equipment. Keep unprotected persons away. Take precautionary measures against static discharge. Beware: spilled product creates a slippery surface.
Environmental Precautions	Prevent further leakage or spillage if safe to do so. Do not allow product to enter sewers, surface water, or groundwater. Notify authorities of significant spills.
Containment & Cleanup	Absorb with non-combustible liquid-binding material (sand, diatomite, vermiculite, universal binders). Collect contaminated material in suitable, properly labeled containers and dispose per Section 13. Ensure adequate ventilation during cleanup. Clean affected area thoroughly. Use non-sparking tools.

SECTION 7 — HANDLING AND STORAGE

Safe Handling	Keep away from heat, sparks, open flames, and hot surfaces. **No smoking.** Use only with adequate ventilation. Use explosion-proof electrical, ventilation, and lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Ground and bond containers when transferring. Avoid contact with skin and eyes. Wash hands thoroughly after handling.
Storage	Store in original tightly closed container in a cool, dry, well-ventilated place away from heat and ignition sources. Keep container upright. Keep at room temperature (15–25°C / 59–77°F). Storage class: 3 (flammable liquids). Shelf life: 24 months in unopened original container.
Incompatibilities	Strong acids, strong oxidizing agents, anionic surfactants, sources of ignition, and incompatible materials per Section 10.

SECTION 8 — EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limits:

Component	Authority	Type	Value
Propan-2-ol (CAS 67-63-0)	OSHA	PEL (long-term)	980 mg/m³ (400 ppm)
Propan-2-ol (CAS 67-63-0)	NIOSH	REL (long-term)	980 mg/m³ (400 ppm)
Propan-2-ol (CAS 67-63-0)	NIOSH	REL (short-term)	1225 mg/m³ (500 ppm)
Propan-2-ol (CAS 67-63-0)	ACGIH	TLV-TWA	200 ppm
Propan-2-ol (CAS 67-63-0)	ACGIH	TLV-STEL	400 ppm
Propan-2-ol (CAS 67-63-0)	ACGIH	BEI	40 mg/L acetone in urine (end of shift, end of workweek)

The active ingredient (CAS 1335202-95-3) has no established OSHA PEL or ACGIH TLV; apply good industrial hygiene practices.

Engineering Controls	Provide adequate general and local exhaust ventilation to keep airborne concentrations below exposure limits. Use explosion-proof equipment in areas where vapors may accumulate.
Respiratory Protection	Not normally required if adequate ventilation is maintained. For prolonged exposure or aerosol generation, use a NIOSH-approved organic vapor respirator (e.g. cartridge type AX/A1).

Hand Protection	Chemically resistant protective gloves (e.g. nitrile rubber, neoprene, or butyl rubber). Glove break-through time must be verified by the glove manufacturer for the specific exposure scenario.
Eye Protection	Tightly sealed chemical splash goggles. Face shield for splash hazards.
Body Protection	Chemical-resistant clothing. Anti-static, flame-resistant clothing recommended where ignition sources may be present. Remove and launder contaminated clothing separately before reuse.

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Property	Value
Physical State	Liquid (fluid)
Color	Yellow / yellowish
Odor	Characteristic (alcoholic)
Odor Threshold	Not determined
pH Value	~ 7 (1% in water)
Melting Point / Range	~ –5°C (~ 23°F)
Boiling Point / Range	82°C (179.6°F)
Flash Point	18°C (64.4°F) — Highly flammable
Auto-Ignition Temperature	~ 220°C (~ 428°F)
Decomposition Temperature	Not determined
Flammability (liquid, gaseous)	Highly flammable
Lower Explosion Limit (LEL)	2 vol%
Upper Explosion Limit (UEL)	12 vol%
Vapor Pressure at 20°C	43 hPa (32.3 mm Hg)
Vapor Density	Not determined (heavier than air)
Density at 20°C	~ 1.03 g/cm³ (8.6 lb/gal)
Solubility in / Miscibility with Water	Fully miscible
Partition Coefficient (n-octanol/water)	Not determined
Viscosity (kinematic, 40°C)	> 20.5 mm²/s
Viscosity (dynamic, 40°C)	> 21 mPa·s
VOC Content (concentrate)	10.0% — 102.6 g/L (0.86 lb/gal)
Solvent Content (organic)	10.0% (isopropanol)
Evaporation Rate	Not determined
Explosion Hazard	Product is not explosive. However, formation of explosive air/vapor mixtures is possible at temperatu

SECTION 10 — STABILITY AND REACTIVITY

Reactivity	No hazardous reactions known under normal conditions of use.
Chemical Stability	Stable. No decomposition if used and stored according to specifications.
Hazardous Reactions	No dangerous reactions known under normal use.
Conditions to Avoid	Heat, sparks, open flames, hot surfaces, and other ignition sources. Static discharge. Direct sunlight on closed containers.
Incompatible Materials	Strong acids, strong oxidizing agents, anionic surfactants.

Hazardous Decomposition Products	Thermal decomposition may produce nitrogen oxides (NOx) and carbon monoxide (CO). No dangerous decomposition products under normal storage conditions.
Hazardous Polymerization	Will not occur.

SECTION 11 — TOXICOLOGICAL INFORMATION

Acute Toxicity Data:

Component	Route	Species	Value	Guideline
Active (CAS 1335202-95-3)	Oral	Rat	LD50 > 2,000 mg/kg	OECD
Active (CAS 1335202-95-3)	Dermal	Rat	LD50 > 2,000 mg/kg	OECD 402
Propan-2-ol (CAS 67-63-0)	Oral	Rat	LD50 = 5,045 mg/kg	OECD 401
Propan-2-ol (CAS 67-63-0)	Dermal	Rabbit	LD50 = 12,800 mg/kg	OECD 402
Propan-2-ol (CAS 67-63-0)	Inhalation	Rat	LC50 = 30 mg/L (4h)	OECD 403

Skin Effects	Causes skin irritation (Skin Irrit. 2 — H315). Repeated or prolonged contact may cause defatting, dryness, and dermatitis.
Eye Effects	Causes serious eye irritation (Eye Irrit. 2A — H319). May cause redness, tearing, and blurred vision.
Inhalation	Vapors may cause respiratory tract irritation, headache, dizziness, drowsiness, and narcosis at high concentrations.
Sensitization	No sensitizing effects known.
Carcinogenicity	Active ingredient: not listed by IARC, NTP, OSHA, or EPA. Propan-2-ol: IARC Group 3 (not classifiable as to carcinogenicity in humans); ACGIH A4 (not classifiable).
Reproductive Toxicity	Not listed for reproductive toxicity (Prop 65 cancer, female, male, or developmental).
Chronic Effects	Repeated overexposure to isopropanol vapors may cause central nervous system effects.
Interactive Effects	No interactive effects between components are known.

SECTION 12 — ECOLOGICAL INFORMATION

Aquatic Toxicity:

Test	Organism	Value	Component	Guideline
EC50 (48h)	Daphnia magna	2.23 mg/L	Active (CAS 1335202-95-3)	OECD 202
LC50 (96h)	Oncorhynchus mykiss	1.91 mg/L	Active (CAS 1335202-95-3)	OECD 203
EC50 (48h)	Daphnia magna	> 100 mg/L	Propan-2-ol	OECD 202
LC50 (96h)	Pimephales promelas	9,640 mg/L	Propan-2-ol	OECD 203

Water Hazard Class	Class 1 (self-assessment) — slightly hazardous for water
Persistence & Degradability	The active quaternary ammonium ester compound is biodegradable per OECD guidance. Isopropanol is readily biodegradable under aerobic conditions.
Bioaccumulation	Not expected to bioaccumulate; no PBT or vPvB classification applies.
Mobility in Soil	Highly mobile due to water miscibility; do not allow to enter ground water or sewers.
PBT / vPvB	Not applicable.
Other Adverse Effects	No further relevant information available.

SECTION 13 — DISPOSAL CONSIDERATIONS

Waste Disposal	Must NOT be disposed of together with household garbage. Do not allow product to reach sewage system, surface water, or groundwater. Dispose in accordance with all applicable local, state, and federal regulations. Treat as flammable hazardous waste where applicable.
Container Disposal	Disposal must be made according to official regulations. Triple-rinse empty containers with water before recycling or disposal. Empty containers may retain product residue and may be flammable.
RCRA Status	Unused product may meet the RCRA hazardous waste characteristic of **D001 Ignitability** (flash point < 60°C). Verify classification at the point of disposal; consult local regulations.

SECTION 14 — TRANSPORT INFORMATION

Note: The following classification applies to the undiluted concentrate. Consumer-package small-quantity reliefs (Limited Quantities, Excepted Quantities) may apply to retail-size bottles — verify the applicable exemption with a qualified DG specialist for your specific shipment.

Regulation	UN No.	Proper Shipping Name	Class	PG	Labels
DOT (USA)	UN1219	Isopropanol mixture	3	II	3
ADR/RID/ADN	UN1219	ISOPROPANOL (ISOPROPYL ALCOHOL) mixture	3 (F1)	II	3
IMDG	UN1219	ISOPROPANOL (ISOPROPYL ALCOHOL) mixture	3	II	3
IATA	UN1219	ISOPROPANOL (ISOPROPYL ALCOHOL) mixture	3	II	3

- **Marine Pollutant:** NO (not classified as environmentally hazardous).
- **IMDG Limited Quantities (LQ):** 1 L.
- **IMDG / ADR Excepted Quantities (EQ):** Code E2 — Max 30 mL inner / 500 mL outer packaging.
- **IMDG EMS:** F-E, S-D | **Kemler Code:** 33 | **Stowage:** Category B.
- **Air shipment:** Not accepted by USPS or by passenger aircraft. Ground transport (UPS Ground, FedEx Ground) only for retail consumer fulfillment.
- **Special precautions for user:** Warning — flammable liquids. Take precautionary measures against static discharge.

SECTION 15 — REGULATORY INFORMATION

Regulation	Status
OSHA HazCom 2012	This SDS prepared per 29 CFR 1910.1200 GHS requirements.
TSCA	All components listed as ACTIVE on the TSCA Inventory.
SARA Section 302/304/355	No component listed as an Extremely Hazardous Substance.
SARA Section 313	Propan-2-ol (CAS 67-63-0) is listed (Toxic Chemical — reporting threshold 10,000 lb/yr).
Hazardous Air Pollutants (CAA §112)	No component listed.
IARC	Active: not listed. Propan-2-ol: Group 3.
NTP	No component listed.
OSHA-Ca / NIOSH-Ca	No component listed.
EPA Carcinogenicity	No component listed.
Prop 65 — Cancer	NOT listed as known to cause cancer.

Regulation	Status
Prop 65 — Repro (Female)	NOT listed.
Prop 65 — Repro (Male)	NOT listed.
Prop 65 — Developmental	NOT listed.
WHMIS (Canada, GHS-aligned)	Class B-2 Flammable Liquid; Class D-2B Other Toxic Effects (irritant).

SECTION 16 — OTHER INFORMATION

Prepared By	RepelX LLC — Product Safety & Compliance
Issue Date	April 2026
Version	2.0 — Reformulation: switched active to CAS 1335202-95-3 in isopropanol carrier (replacing prior version 1.0/1.1 quaternary ammonium ethylsulphate formulation).
Previous Version	1.1 (April 2026 — obsolete; do not use for shipments produced under current formulation).
Key References	Deuteron LE 292 Safety Data Sheet (OSHA HCS, 02/13/2024); Deuteron Technical Data Sheet for LE 200 / LE 292 antistatic additives; OSHA 29 CFR 1910.1200; GHS Rev. 9; OECD Test Guidelines.

Abbreviations & Acronyms:

ADR = European Agreement Concerning the International Carriage of Dangerous Goods by Road | IMDG = International Maritime Dangerous Goods Code | DOT = US Department of Transportation | IATA = International Air Transport Association | CAS = Chemical Abstracts Service | NFPA = National Fire Protection Association (USA) | HMIS = Hazardous Materials Identification System (USA) | VOC = Volatile Organic Compounds | LC50 / LD50 = Lethal Concentration / Lethal Dose, 50% population | PBT / vPvB = Persistent, Bioaccumulative & Toxic / very Persistent & very Bioaccumulative | NIOSH = National Institute for Occupational Safety and Health | OSHA = Occupational Safety and Health Administration | PEL = Permissible Exposure Limit | REL = Recommended Exposure Limit | TLV = Threshold Limit Value | STEL = Short-Term Exposure Limit | TWA = Time-Weighted Average | BEI = Biological Exposure Index | Flam. Liq. 2 = Flammable Liquid Category 2 | Skin Irrit. 2 = Skin Corrosion/Irritation Category 2 | Eye Irrit. 2A = Serious Eye Damage/Eye Irritation Category 2A | STOT SE 3 = Specific Target Organ Toxicity, Single Exposure, Category 3.

DISCLAIMER: The information in this Safety Data Sheet is based on data from the supplier of the active ingredient (Deuteron GmbH, SDS dated 02/13/2024) and from internal compliance review by RepelX LLC. The information is believed to be accurate as of the date of preparation. RepelX LLC makes no warranty, expressed or implied, regarding the accuracy or completeness of this information. It is the responsibility of the user to determine suitability for their intended use and to comply with all applicable federal, state, and local laws and regulations. This document is prepared in accordance with OSHA HazCom 2012 (29 CFR 1910.1200).