SAFETY DATA SHEET

PRODUCT CODE: n/a

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Cali-Clear
PRODUCT CODES: n/a

MANUFACTURER: Legacy Industrial Products LLC
STREET ADDRESS: 570 Lake Cook Rd. Ste 300
CITY, STATE, ZIP: Deerfield, IL 60015

INFORMATION PHONE: 888-652-0333
EMERGENCY PHONE: InfoTrac 800-535-5053
FAX PHONE: n/a

Chemical Name or Class: Acrylic Polyurethane dispersion

SECTION 2: HAZARDS IDENTIFICATION

Hazard Overview

GHS Classification: **Hazard Statements:**



Skin corrosion/irritation – category 2 — H315 – Causes skin irritation
Serious eye damage/eye irritation – category 2A — H319 – Causes serious eye irritation



Reproductive toxicity – category 1B — H360 – May damage fertility or the unborn child.

Signal Word: DANGER

Precautionary statements:
P102 Keep out of reach of children.
P103 Read label before use
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P264 + P265 Wash hand and skin thoroughly after handling. Do not touch eyes.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
Response:
P302 + P352 IF ON SKIN: wash with plenty of soap and water.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P317 IF exposed or concerned: Get emergency medical help.
P332 + P317 If SKIN irritation occurs: Get emergency medical help.
P337 + P317 IF eye irritation persists: Get emergency medical help.
P362 + P364 Take off contaminated clothing and wash it before reuse.
Storage:
P405 Store locked up.
Disposal:
P501 Dispose of contents/container to a waste disposal facility in accordance with local, state, federal or international laws.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT	CAS NO.	WEIGHT %
Water	7732-18-5	30 - 60
Acrylic polymer(s)	trade secret	>= 1
Residual monomers	trade secret	0 - 0.1
Aqua ammonia	1336-21-6	0 - 0.1
Polyurethane Resin	trade secret	>= 1
n-Methyl-2-pyrrolidone	872-50-4	1 - 5
Triethylamine (TEA)	121-44-8	0.1 - 1
2-Propanol, 1-(1-methyl-2-propoxyethoxy)-	29911-27-1	1 – 5
Polyether and polyetherpolysiloxane emulsion	trade secret	0.1 - 1
Fluorosurfactant	trade secret	0 - 0.1
Phosphoric Acid, mixed esters with partially fluorinated alcohol, ammonium salts	1224429-82-6	0 – 0.1
2-Methyl-2H-isothiazol-3-one	2682-20-4	0 – 0.001

Note: Ingredients listed without percentages, the percentages are considered a trade secret.

SECTION 4: FIRST AID MEASURES

Inhalation: Move to fresh air.

Skin Contact: Wash with soap and water as a precaution. If skin irritation persists, call a physician.

Eye Contact: Rinse with plenty of water. If eye irritation persists, contact a specialist.

Ingestion: Drink 1 or 2 glasses of water. Consult a physician if necessary. Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed: Aside from the information found under Description of first aid measures (above) and Indication of immediate medical attention and special treatment needed (below), any additional important symptoms and effects are described in Section 11: Toxicology information.

Indication of any immediate medical attention and special treatment needed: Notes to physician: Treatment should be directed at preventing absorption, administering to symptoms (if they occur), and providing supportive therapy.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing media:

Suitable extinguishing media: Use extinguishing media appropriate for surrounding fire. Carbon dioxide (CO2), dry chemical, foam, water spray for large fires.

Unsuitable extinguishing media: No data available.

Special hazards arising from the substance or mixture:

Hazardous decomposition products: By fire: carbon dioxide, carbon monoxide, nitrogen oxides, amines, other aliphatic fragments which have not been determined.

Unusual Fire and Explosion Hazards: Material can splatter above 100C/212F. Dried product can burn.

Advice for firefighters:

Firefighting Procedures: Use cold water spray to cool fire-exposed containers to minimize the risk of rupture.

Special protective equipment for firefighters: Wear self-contained breathing apparatus and protective suit.

SECTION 6: RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Use personal protective equipment. Keep people away from and upwind of spill/leak. Material can create slippery conditions.

Environmental precautions: CAUTION: Keep spills and runoff out of municipal sewers and open bodies of water.

Methods and materials for containment and clean up: Clean spills immediately with inert materials (sand or dry earth). Transfer liquids and solid diking material to separate suitable containers for recovery or disposal.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling: Handle in accordance with good industrial hygiene and safety practices. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Keep container tightly closed. Do not breathe vapors, mist or gas. If contamination with isocyanates is suspected, do not reseal containers.

Conditions for safe storage: Keep from freezing – product stability may be affected. STIR WELL BEFORE USE.

Storage Stability: Storage temperature 5-40C (41-104F). Monomer vapors can be evolved when material is heated during processing operations. See SECTION 8 for types of ventilation required.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters: No data for the product itself, data below represents any/all component data available:

Aqua ammonia (component of acrylic polymer(s)) CAS# 1336-21-6

Dow IHG – TWA – 10 ppm, as ammonia
ACGIH – TWA – 25 ppm, ammonia
ACGIH – STEL – 35 ppm, ammonia
OSHA Z-1 – TWA – 35 mg/m^3(approximate), 50 ppm

n-Methyl-2-pyrrolidone CAS# 872-50-4

Supplier exposure limit – Time Weighted Average (TWA): 100 ppm

Triethylamine (TEA) CAS# 121-44-8

ACGIH time weighted average (TWA) 0.5 ppm.
ACGIH skin dermal absorption possible.
ACGIH short term exposure limit 1 ppm.
OSHA Table Z-1 limits for air contaminants (29 CFR 1910.1000), as amended – permissible exposure limit 25 ppm, 100 mg/m^3.
ACGIH threshold limit values, as amended – hazard designation: Group A4, not classifiable as a human carcinogen.

Chemical identity	CAS#	Type	Exposure limit	source
Ethanol, 2-amino- (component of polyetherpolysiloxane emulsion)	141-43-5	TWA	3 ppm	ACGIH
Ethanol, 2-amino- (component of polyetherpolysiloxane emulsion)	141-43-5	STEL	6 ppm	ACGIH
Ethanol, 2-amino- (component of polyetherpolysiloxane emulsion)	141-43-5	STEL	6 ppm / 15 mg/m^3	NIOSH REL
Ethanol, 2-amino- (component of polyetherpolysiloxane emulsion)	141-43-5	REL	3 ppm / 8 mg/m^3	NIOSH REL
Ethanol, 2-amino- (component of polyetherpolysiloxane emulsion)	141-43-5	PEL	3 ppm / 6 mg/m^3	OSHA Z-1
Ethanol (component of polyetherpolysiloxane emulsion)	64-17-5	STEL	1,000 ppm	ACGIH
Ethanol (component of polyetherpolysiloxane emulsion)	64-17-5	REL	1,000 ppm / 1,900 mg/m^3	NIOSH REL
Ethanol (component of polyetherpolysiloxane emulsion)	64-17-5	PEL	1,000 ppm / 1,900 mg/m^3	OSHA Z-1
Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl- (component of polyetherpolysiloxane emulsion)	128-37-0	REL	10 mg/m^3	NIOSH REL
Cyclohexane (component of polyetherpolysiloxane emulsion)	110-82-7	TWA	100 ppm	ACGIH
Cyclohexane (component of polyetherpolysiloxane emulsion)	110-82-7	REL	300 ppm / 1,050 mg/m^3	NIOSH REL
Cyclohexane (component of polyetherpolysiloxane emulsion)	110-82-7	PEL	300 ppm / 1,050 mg/m^3	OSHA Z-1
Orthophosphoric acid (component of polyetherpolysiloxane emulsion)	7664-38-2	TWA	1 mg/m^3	ACGIH
Orthophosphoric acid (component of polyetherpolysiloxane emulsion)	7664-38-2	STEL	3 mg/m^3	ACGIH
Orthophosphoric acid (component of polyetherpolysiloxane emulsion)	7664-38-2	REL	1 mg/m^3	NIOSH REL
Orthophosphoric acid (component of polyetherpolysiloxane emulsion)	7664-38-2	STEL	3 mg/m^3	NIOSH REL
Orthophosphoric acid (component of polyetherpolysiloxane emulsion)	7664-38-2	PEL	1 mg/m^3	OSHA Z-1
Orthophosphoric acid (component of polyetherpolysiloxane emulsion)	7664-38-2	IDHL	1,000 mg/m^3	NIOSH IDL
Orthophosphoric acid (component of polyetherpolysiloxane emulsion)	7664-38-2	TWA	1 mg/m^3	OSHA Z-1-A
Orthophosphoric acid (component of polyetherpolysiloxane emulsion)	7664-38-2	STEL	3 mg/m^3	OSHA Z-1-A
Orthophosphoric acid (component of polyetherpolysiloxane emulsion)	7664-38-2	TWA	1 mg/m^3	Tennessee Z1A
Orthophosphoric acid (component of polyetherpolysiloxane emulsion)	7664-38-2	STEL	3 mg/m^3	Tennessee Z1A
Orthophosphoric acid (component of polyetherpolysiloxane emulsion)	7664-38-2	ST ESL	10 $\mu g/m^3$	Texas ESL
Orthophosphoric acid (component of polyetherpolysiloxane emulsion)	7664-38-2	AN ESL	1 $\mu g/m^3$	Texas ESL
Orthophosphoric acid (component of polyetherpolysiloxane emulsion)	7664-38-2	TWA PEL	1 mg/m^3	California Title 8, Section 5155
Orthophosphoric acid (component of polyetherpolysiloxane emulsion)	7664-38-2	STEL	3 mg/m^3	California Title 8, Section 5155
Hydrogen fluoride (component of fluorosurfactant)	7664-39-3	TWA	0.5 ppm (fluorine)	ACGIH
Hydrogen fluoride (component of fluorosurfactant)	7664-39-3	C	2 ppm (fluorine)	ACGIH
Hydrogen fluoride (component of fluorosurfactant)	7664-39-3	C	6 ppm / 5 mg/m^3	NIOSH REL
Hydrogen fluoride (component of fluorosurfactant)	7664-39-3	TWA	3 ppm / 2.5 mg/m^3	NIOSH REL
Carbonyl difluoride (component of fluorosurfactant)	353-50-4	TWA	2 ppm	ACGIH
Carbonyl difluoride (component of fluorosurfactant)	353-50-4	STEL	5 ppm	ACGIH
Carbonyl difluoride (component of fluorosurfactant)	353-50-4	TWA	2 ppm / 5 mg/m^3	NIOSH REL
Carbonyl difluoride (component of fluorosurfactant)	353-50-4	ST	5 ppm / 15 mg/m^3	NIOSH REL
Carbon dioxide (component of fluorosurfactant)	124-38-9	TWA	5,000 ppm	ACGIH
Carbon dioxide (component of fluorosurfactant)	124-38-9	STEL	30,000 ppm	ACGIH
Carbon dioxide (component of fluorosurfactant)	124-38-9	TWA	5,000 ppm / 9,000 mg/m^3	NIOSH REL
Carbon dioxide (component of fluorosurfactant)	124-38-9	ST	30,000 ppm / 54,000 mg/m^3	NIOSH REL
Carbon dioxide (component of fluorosurfactant)	124-38-9	TWA	5,000 ppm / 9,000 mg/m^3	OSHA Z-1
Carbon monoxide (component of fluorosurfactant)	630-08-0	TWA	25 ppm	ACGIH
Carbon monoxide (component of fluorosurfactant)	630-08-0	TWA	35 ppm / 40 mg/m^3	NIOSH REL
Carbon monoxide (component of fluorosurfactant)	630-08-0	C	200 ppm / 229 mg/m^3	NIOSH REL
Carbon monoxide (component of fluorosurfactant)	630-08-0	TWA	50 ppm / 55 mg/m^3	OSHA Z-1

Engineering controls: Use local and general exhaust ventilation to control levels of exposure.

Protective measures: Facilities storing or utilizing this material should be equipped with an eyewash facility. Employees should wash their hands and face before eating, drinking or using tobacco products. Educate and train employees in the safe use and handling of this product.

Individual protection measures:

Eye/face protection: Chemical safety goggles or safety glasses with side-shields.
Hand protection: Wear neoprene gloves or other permeation resistant gloves. Ensure gloves remain in good condition during use.
Respiratory protection: A respiratory protection program meeting OSHA 1910.134 and ANSI Z88.2 requirements or equivalent must be followed whenever workplace conditions warrant a respirator's use. None required if airborne concentrations are maintained below the exposure limit listed in Exposure Limit Information. For airborne concentrations up to 10 times the exposure limit, wear a properly fitted NIOSH approved (or equivalent) half mask, air purifying respirator. Air purifying respirators should be equipped with NIOSH approved (or equivalent) ammonia/methylamine cartridges and N95 filters. If oil is present, use R95 or P95 filters.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Milky (transparent white) liquid
Odor: Faint ammonia like
Odor Threshold: N/A
pH: N/A
Melting point/freezing point: N/A
BOILING POINT OR RANGE: N/A
Flash Point: Non-combustible in supplied form. However, solid material will support combustion if water has been evaporated.
VAPOR DENSITY (AIR = 1): N/A
SPECIFIC GRAVITY (H2O = 1): 1.01
EVAPORATION RATE: N/A
SOLUBILITY IN WATER: EMULSIFIABLE DISPERSION
Viscosity: <200 cps
Percent volatility: 30-60% water
Vapor Pressure: N/A
Auto Ignition Temperature: N/A
Partition Coefficient: n-octanol/water: N/A
Decomposition Temperature: N/A

SECTION 10: STABILITY AND REACTIVITY

STABILITY:
STABLE
CONDITIONS TO AVOID (STABILITY):
AVOID CONTACT WITH OPEN FLAMES AND ALL SOURCES OF IGNITIONS AND SPARKS. AVOID TEMPERATURES BELOW 35F.
INCOMPATIBILITY (MATERIAL TO AVOID):
AVOID CONTACT WITH STRONG OXIDIZING AGENTS, AND ISOCYANATES.
HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:
BY FIRE: CARBON DIOXIDE, CARBON MONOXIDE, NITROGEN OXIDES, AMINES, OTHER ALIPHATIC FRAGMENTS WHICH HAVE NOT BEEN DETERMINED.
HAZARDOUS POLYMERIZATION:
WILL NOT OCCUR

SECTION 11: TOXICOLOGICAL INFORMATION

Product data:
Information on likely routes of exposure: inhalation, eye contact, skin contact.
Component data:

Component Acrylic polymer(s) CAS# trade secret

Acute Oral Toxicity: For similar material(s): LD50, rat, > 5,000 mg/kg.
Acute Dermal Toxicity: For similar material(s): LD50, rabbit, > 5,000 mg/kg.
Acute inhalation toxicity: Dust may cause irritation of the upper respiratory tract (nose and throat) and lungs. For similar material(s): LC50, rat, dust/mist, > 3.4 mg/l.
Skin corrosion/irritation: Brief contact may cause slight skin irritation with local redness.
Serious eye damage/eye irritation: May cause slight eye irritation.
Sensitization: no data available.
STOT (single exposure): Evaluation of available data suggests that this material is not a STOT-SE toxicant.
Aspiration Hazard: Based on physical properties, not likely to be an aspiration hazard.
STOT (repeated exposure): no data available.
Carcinogenicity: no data available.
Teratogenicity: no data available.
Reproductive Toxicity: no data available.
Mutagenicity: no data available.

Component Residual monomers CAS# trade secret

Acute Oral Toxicity: Single dose oral LD50 has not been determined.
Acute Dermal Toxicity: The dermal LD50 has not been determined.
Acute inhalation toxicity: The LC50 has not been determined.

Component Aqua ammonia CAS# 1336-21-6

Acute Oral Toxicity: Single dose oral LD50 has not been determined.
Acute Dermal Toxicity: The dermal LD50 has not been determined.
Acute inhalation toxicity: The LC50 has not been determined.
Skin corrosion/irritation: Brief contact may cause skin burns. Symptoms may include pain, severe local redness and tissue damage. Classified as corrosive to the skin according to DOT guidelines.
Serious eye damage/eye irritation: May cause severe irritation with corneal injury which may result in permanent impairment of vision, even blindness. Chemical burns may occur.
Sensitization: no data available.
STOT (single exposure): Evaluation of available data suggests that this material is not a STOT-SE toxicant.
Aspiration Hazard: Aspiration into the lungs may occur during ingestion or vomiting, causing tissue damage or lung injury.
STOT (repeated exposure): no data available.

Carcinogenicity: no data available.
Teratogenicity: no data available.
Reproductive Toxicity: no data available.
Mutagenicity: In vitro genetic toxicity studies were negative. Animal genetic toxicity studies were negative.

Component n-Methyl-2-pyrrolidone CAS# 872-50-4

Acute oral toxicity: LD50: 4,150 mg/kg (Rat, male/female) – OECD 401
Acute inhalation toxicity: LC50: > 5.1 mg/l, 4 h, aerosol (rat, male/female) – OECD 403
Acute dermal toxicity: LD50: > 5,000 mg/kg (rat, male/female) – OECD 402
Skin irritation: irritating
Eye irritation: (rabbit), irritating – OECD 405
Sensitization: dermal: non-sensitizer (Guinea pig, Other method). dermal: non-sensitizer (Human, Patch Test). Skin sensitization (local lymph node assay (LLNA)) – negative, mouse – OECD 429.
Repeated dose toxicity: {90 Days, inhalation: NOAEL: 0.5 mg/l, (Rat, Male/Female, 6 hrs/day 5 days/week) – Result: Irritation to lungs and nasal cavity. Reduced body weight gain. Reduced testicular weights, testicular atrophy}. {4 weeks, oral: NOAEL: 277 mg/kg, (mouse, Male/Female, ad libitum) – Result: Changes in: liver}. {90 days, oral: NOAEL: 3000, LOAEL: 7500, (rat, male/female)}.
Mutagenicity: Genetic Toxicity in Vitro: Ames: negative (Salmonella typhimurium, Metabolic Activation: with/without).
Unscheduled DNA synthesis: negative (rat hepatocytes, metabolic activation: with/without).
Mammalian cell – gene mutation assay: negative (Chinese hamster ovary (CHO) cells, metabolic activation: with/without).
Genetic Toxicity in Vivo: Micronucleus Assay: negative (mouse).
Micronucleus test: negative (mouse, male/female, oral)
Cytogenetic assay: negative (hamster, male/female, oral)
Carcinogenicity: Rat, inhalation, 2 Years, negative. Rat, inhalation, 2 years, NOAEL: 207 mg/kg. Rat, female, inhalation, 2 years, 6 hours/day, 5 days/week, NOAEL: 0.4 mg/l. Rat, male, inhalation, 2 years, 6 hours/day, 5 days/week, NOAEL 0.4 mg/l. Mouse, male/female, oral, 18 months, NOAEL: 173 mg/kg.
Toxicity to Reproduction/Fertility: Two generation study, (feeding study), oral, daily, (Rat, male/female) NOAEL (parental): 350 mg/kg, NOAEL (F1): 160 mg/kg, NOAEL (F2): 160 mg/kg, fertility and mating indices were decreased. The survival and growth rates were reduced.
Developmental Toxicity/Teratogenicity: Rat, oral, 21 days, daily, NOAEL (teratogenicity): 250 mg/kg, NOAEL (maternal): 125 mg/kg, Oral administration of methylpyrrolidone at 500 mg/kg/d in pregnant rats resulted in embryonic loss and fetal malformations, including anasarca, anal atresia, cardiovascular, and skeletal defects. There was a single malformed fetus at 250 mg/kg/d with abnormalities similar to those observed in the 500 mg/kg/d group, and no increase in developmental effects at a maternal dose of 125 mg/kg/d.
Other Relevant Toxicity Information: May cause irritation of respiratory tract.
Other Carcinogenicity Information: No carcinogenic substances as defined by IARC, NTP and/or OSHA.

Component 2-Propanol, 1-(1-methyl-2-propoxyethoxy)- CAS# 29911-27-1

Acute Oral Toxicity – LD50 (Rat): 2,032 mg/kg – Assessment: The component is minimally toxic after single ingestion.
Acute Inhalation Toxicity – no data
Acute dermal toxicity – LD50 (Rabbit): > 2,000 mg/kg – Assessment: The component is minimally toxic after single contact with skin.
Serious eye damage/eye irritation – Irritating to the eyes of a rabbit.
Respiratory or skin sensitization – Buehler Test (Guinea pig) – Result: Did not cause sensitization on laboratory animals.
Germ cell mutagenicity – Genotoxicity in vitro: Ames test, (salmonella typhimurium): Metabolic activation (with and without metabolic activation); Result – negative. Tests on bacterial or mammalian cell cultures did not show mutagenic effects.
Carcinogenicity – No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens. No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
Effects on fertility – Screening test, rat, oral, 29d, parent NOAEL: 300
Effects on fetal development – Embryo-fetal development, rabbit, dermal, 22d, NOAEL: 1,000
Teratogenicity – Assessment: No evidence of adverse effects on sexual function and fertility, or on development, based on animal experiments.
General remarks – Symptoms of over exposure may be headache, dizziness, tiredness, nausea and vomiting. Concentrations substantially above the TLV value may cause narcotic effects. Solvents may degrease the skin.

Component Polyether and polyetherpolysiloxane emulsion CAS# trade secret

Germ Cell Mutagenicity – In vitro
(CAS# 9005-00-9) Octadecan-1-ol, ethoxylated: Ames test (OECD 471): negative. Chromosomal aberration (OECD 473): negative. Gene mutation (OECD 476): negative.
(CAS# 141-43-5) Ethanol, 2-amino-: Ames test (OECD TG 474): negative.
(CAS# 7664-38-2) Orthophosphoric acid: Ames test (OECD 471): negative. Chromosomal aberration (OECD 473): negative

Component Fluorosurfactant CAS# trade secret

Acute Oral Toxicity –.LD50, mouse: > 5,000 mg/kg
Acute Inhalation Toxicity – Acute toxicity estimate, rat: 0.5 mg/l, 4h, dust/mist, method – expert judgement
Skin corrosion/irritation – rabbit, OECD 404, no skin irritation
Serious eye damage/eye irritation – rabbit, OECD 405, no eye irritation
Respiratory or skin sensitization – May cause an allergic skin reaction
Germ cell mutagenicity – Weight of evidence does not support classification
Carcinogenicity – Not classified based on available information.
Reproductive Toxicity – Weight of evidence does not support classification for reproductive toxicity.
STOT (single exposure) – Causes damage to organs (lung, larynx) if inhaled.
Routes of Exposure: inhalation (dust/mist/fume)
Target Organs: lung, larynx

Assessment: Shown to produce significant health effects in animals at concentrations of 1.0 mg/l/4h or less (based on data from similar materials)

STOT (repeated exposure) – Not classified based on available information.

Repeated dose toxicity:

Species – mouse
NOAEL – 300 mg/kg
LOAEL - > 300 mg/kg
Application route – ingestion
Exposure time – 28 days
Remarks – No significant adverse effects were reported.

Aspiration toxicity – Not classified based on available information.

Component Phosphoric Acid, mixed esters with partially fluorinated alcohol, ammonium salts CAS# 1224429-82-6

Acute Oral Toxicity –.LD50, mouse: > 2,000 mg/kg, assessment – The substance or mixture has no acute oral toxicity
Acute Inhalation Toxicity – Acute toxicity estimate, rat: 0.12 mg/l, 4h, dust/mist, method – expert judgement
Skin corrosion/irritation – rabbit, OECD 404, no skin irritation
Serious eye damage/eye irritation – rabbit, OECD 405, no eye irritation
Respiratory or skin sensitization – skin contact, mouse, negative
Germ cell mutagenicity – Weight of evidence does not support classification
Carcinogenicity – Not classified based on available information.
Reproductive Toxicity – Weight of evidence does not support classification for reproductive toxicity.
STOT (single exposure) – Causes damage to organs (lung, larynx) if inhaled.

Routes of Exposure: inhalation (dust/mist/fume)
Target Organs: lung, larynx
Assessment: Shown to produce significant health effects in animals at concentrations of 1.0 mg/l/4h or less (based on data from similar materials)

STOT (repeated exposure) – No significant health effects observed in animals at concentrations of 100 mg/kg bw or less.

Component 2-Methyl-2H-isothiazol-3-one CAS# 2682-20-4

Acute Oral Toxicity –.LD50, rat: 120 mg/kg
Acute Inhalation Toxicity – LC50, rat: 0.11 mg/l, 4h, dust/mist, OECD 403, assessment – corrosive to the respiratory tract
Acute dermal toxicity – LD50, rat: 242 mg/kg, OECD 402
Skin corrosion/irritation – corrosive after 3 minutes to 1 hour of exposure
Serious eye damage/eye irritation – irreversible effects on the eye
Respiratory or skin sensitization – skin contact, positive, assessment – Probability of evidence of high skin sensitization rate in humans
Germ cell mutagenicity – Genotoxicity in vitro: Chromosome aberration test, negative.
Genotoxicity in vivo: Unscheduled DNA synthesis test with mammalian liver cells in vivo, rat, ingestion, OECD 486, result: negative.
Carcinogenicity – Not classified based on available information.
Reproductive Toxicity – Effects on fertility: Two-generational study, rat, ingestion, OECD 416, result: negative.
Effects on fetal development: Embryo-fetal development, rat, ingestion, OECD 414, result: negative.

SECTION 12: ECOLOGICAL INFORMATION

No data for the product itself.
Component data:

Component Acrylic polymer(s) CAS# trade secret

Acute Toxicity to Fish: Material is practically non-toxic to aquatic organisms on an acute basis. (LC50/EC50/EL50/LL50 > 100 mg/l in the most sensitive species tested).
Acute Toxicity to Aquatic invertebrates: for similar material(s): EC50/NOEC, daphnia magna or water flea, 48 hour, > 100 mg/l, OECD 202.
Acute Toxicity to algae/aquatic plants: for similar material(s): EC50, selenastrum capricornutum or green algae, 72 hour, growth rate, > 999 mg/l, OECD 201. For similar material(s): NOEC, selenastrum capricornutum or green algae, 72 hour, growth rate, 92 mg/l, OECD 201.
Toxicity to bacteria: for similar material(s): EC50, activated sludge, 3 hour, respiration rates, > 100 mg/l, OECD 209.
Biodegradability: for similar material(s): Material is expected to biodegrade very slowly (in the environment). Fails to pass OECD/EEC tests for ready biodegradability.
Bioaccumulation: no data available.
Mobility in the soil: no data available.

Component Residual monomers CAS# trade secret

Acute Toxicity to Fish: no data available.
Biodegradability: no data available.
Bioaccumulation: no data available.
Mobility in the soil: no data available.

Component Aqua ammonia CAS# 1336-21-6

Acute Toxicity to Fish: Material is highly toxic to aquatic organisms on an acute basis (LC/EC50 between 0.1 and 1 mg/l in the most sensitive species tested). May increase pH of aquatic systems to > pH 10 which may be toxic to aquatic organisms. LC50, lepomis macrochirus or bluegill sunfish, 96 hour, 0.87mg/l. LC50, pimephales promelas or fathead minnow, 96 hour, 1.2 mg/l.
Acute Toxicity to aquatic invertebrates: EC50, daphnia magna or water flea, 48 hour, 0.66 mg/l.
Biodegradability: Biodegradation may occur under aerobic conditions (in the presence of oxygen). Biodegradation rate may increase in soil and/or water with acclimation. Theoretical oxygen demand: 0.76 mg/mg.

Bioaccumulation: no bio-concentration is expected because of the relatively high water solubility.
Mobility in the soil: potential for mobility in soil is very high (Koc between 0 and 50).

Component n-Methyl-2-pyrrolidone CAS# 872-50-4

Biodegradation: Aerobic, 90 %, Exposure time: 8 Days
Readily biodegradable.
Acute and Prolonged Toxicity to Fish: LC50: Approximately 832 mg/l (Bluegill (Lepomis macrochirus), 96 h)
Acute Toxicity to Aquatic Invertebrates: EC50: Approximately 4,897 mg/l (Water flea (Daphnia magna), 48 h)
Toxicity to Aquatic Plants: EC50: > 500 mg/l, (Green algae (Selenastrum capricornutum))

Component 2-Propanol, 1-(1-methyl-2-propoxyethoxy)- CAS# 29911-27-1

Toxicity to fish – LC50 (Oncorhynchus mykiss or rainbow trout): > 100 mg/l, 96h, static test.
Toxicity to daphnia and other aquatic invertebrates – EC50 (Daphnia magna or water flea): > 100 mg/l, 48h, static test.
Toxicity to algae – EC50 (pseudokirchneriella subcapitata or algae): > 1,000 mg/l, 96h, static test.
Acute aquatic toxicity – Assessment: This product has no known eco-toxicological effects.
Chronic aquatic toxicity – Assessment: This product had no known eco-toxicological effects.
Persistence and degradability – No data.
Bio-accumulative potential – Partition coefficient: n-octanol/water: log Pow: 7.7 (22C)
Mobility in soil – No data.
Ozone-Depletion Potential – This component neither contains, nor was manufactured with a Class I or Class II ODS as defined by the US Clean Air Act Section 602 (40 CFR 82, Subpt. A, App. A+B).

Component Polyether and polyetherpolysiloxane emulsion CAS# trade secret:

Other Adverse Effects: Do not allow to enter soil, waterways or waste water canal.

Component Fluorosurfactant CAS# trade secret

Toxicity to fish – LC50 (Oncorhynchus mykiss or rainbow trout): > 485 mg/l, 96h, OECD 203
Toxicity to daphnia and other aquatic invertebrates – EC50 (daphnia magna or water flea): > 113 mg/l, 48h, OECD 202
Toxicity to algae – ErC50 (Pseudokirchneriella subcapitata or green algae): 94 mg/l, 72h, OECD 201. NOEC (Pseudokirchneriella subcapitata or green algae): 19.8 mg/l, 72h, OECD 201.
Persistence and degradability – Not readily biodegradable
Mobility in soil – No data available

Component Phosphoric Acid, mixed esters with partially fluorinated alcohol, ammonium salts CAS# 1224429-82-6

Toxicity to fish – LC50 (Oncorhynchus mykiss or rainbow trout): > 117 mg/l, 96h, OECD 203
Toxicity to daphnia and other aquatic invertebrates – EC50 (daphnia magna or water flea): > 22.6 mg/l, 48h, OECD 202
Toxicity to algae – ErC50 (pseudokirchneriella subcapitata or green algae): 18.8 mg/l, 72h, OECD 201. NOEC (pseudokirchneriella subcapitata or green algae): 3.9 mg/l, 72h, OECD 201.
Persistence and degradability – Not readily biodegradable

Component 2-Methyl-2H-isothiazol-3-one CAS# 2682-20-4

Toxicity to fish – LC50 (Oncorhynchus mykiss or rainbow trout): 4.77 – 6 mg/l, 96h
Toxicity to daphnia and other aquatic invertebrates – EC50 (daphnia magna or water flea): 0.93 – 1.9 mg/l, 48h
Toxicity to algae – ErC50 (skeletonema costatum or marine diatom): 0.0695 mg/l, 24h. EC10 (pseudokirchneriella subcapitata or green algae): 0.024 mg/l, 24h.
Chronic toxicity to fish – NOEC (pimephales promelas or fathead minnow): 2.1 mg/l, 33d
Chronic toxicity to daphnia and other aquatic invertebrates: NOEC (daphnia magna or water flea): 0.04 mg/l, 21d.
Persistence and degradability – Not readily biodegradable
Bio-accumulative potential – Partition coefficient: n-octanol/water – log Pow: -0.34

SECTION 13: WASTE DISPOSAL

WASTE DISPOSAL METHOD:
DISPOSE OF THE MATERIAL IN A WASTE DISPOSAL SITE IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL LAWS.

SECTION 14: Transport Information

DOT: Not Regulated

IMO/IMDG: Not Regulated

SECTION 15: REGULATORY INFORMATION

No data for the product itself.
Component data:

Component n-Methyl-2-pyrrolidone CAS# 872-50-4

US Toxic Substances Control Act: This substance is subject to TSCA 12(b) export notification requirements – Threshold >= 1%
US EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) – Supplier Notification Required Components: listed

State Right-To-Know Information: Massachusetts, New Jersey & Pennsylvania Right-To-Know Substance List – listed. New Jersey Environmental Hazardous Substance List – listed. New Jersey Right-To-Know Special Hazardous Substance List – listed. California Proposition 65 List – listed.

Component Triethylamine (TEA) CAS# 121-44-8

US EPA CERCLA Hazardous Substances (40 CFR 302) Components: RQ = 5000 lbs.
US EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) – Supplier Notification Required Components: listed
State Right-To-Know Information: Massachusetts, New Jersey & Pennsylvania Right-To-Know Substance List – listed. New Jersey Environmental Hazardous Substance List – listed. New Jersey Right-To-Know Special Hazardous Substance List – listed.

Component Water CAS# 7732-18-5

State Right-To-Know Information: Massachusetts, New Jersey & Pennsylvania Right-To-Know Substance List – listed

Component Polyurethane Resin CAS# trade secret

State Right-To-Know Information: Massachusetts, New Jersey & Pennsylvania Right-To-Know Substance List – listed
Toluene (as a component of Polyurethane Resin) CAS# 108-88-3 – California Proposition 65 List – listed.

Component 2-Propanol, 1-(1-methyl-2-propoxyethoxy)- CAS# 29911-27-1

This component is listed on the Pennsylvania and New Jersey Right-To-Know list, but is not listed on the Massachusetts Right-To-Know list.
This component does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.
This component is listed on the following chemical inventories: TSCA, DSL, AICS, NZIoC, ENCS, KEIC, PHIL, IECSC.

Component Polyether and polyetherpolysiloxane emulsion CAS# trade secret:

CERCLA Hazardous Substance List (40 CFR 302.4):
Ethanol (CAS# 64-17-5) – 100# RQ
Cyclohexane (CAS# 110-82-7) – 1,000# RQ
Orthophosporic acid (CAS# 7664-38-2) – 5,000# RQ
SARA 311/312 Hazardous Chemical
Component Polyether and Polyetherpolysiloxane emulsion (CAS# trade secret): TPQ 10,000#
Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)
(CAS# 7664-38-2) Orthophosphoric acid: 5000# RQ
California Prop 65 WARNING:
(CAS 64-17-5) Ethanol: Known to the state of California to cause cancer and birth defects or other reproductive harm.
Component Polyether and Polyetherpolysiloxane emulsion (CAS# trade secret): on the TSCA and Canada DSL lists

Component Phosphoric Acid, mixed esters with partially fluorinated alcohol, ammonium salts CAS# 1224429-82-6

California Prop 65: This product can expose you to chemicals including Pentadecafluorooctanoic acid, which is/are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov. Note to user: This product is not made with PFOA nor is PFOA intentionally present in the product; however, it is possible that PFOA may be present as an impurity at background (environmental) levels.
Additional regulatory information: Phosphoric acid, mixed esters with partially fluorinated alcohol, ammonium salts CAS# 1224429-82-6: This material contains one or more substances which are subject to a TSCA Section 5 Consent Order or Significant New Use Rule (SNUR). This material contains one or more substances which requires export notification under TSCA Section 12b and 40 CFR part 707 subpart D: P-09-0294.

SECTION 16: OTHER INFORMATION

DISCLAIMER: The information Contained herein is based on the data available and is believed to be accurate. However, the manufacturer makes no warranty expressed or implied regarding the accuracy of this data or the results obtained from the use thereof. Accordingly, we assume no responsibility for injury from the use of this product.

DATE REVISED: 2/7/23

HMIS HAZARD CLASSIFICATION
HEALTH: 2 FLAMMABILITY: 1 REACTIVITY: 0 PERSONAL PROTECTIVE EQUIPMENT: G

N/A = Not Available