



SAFETY DATA SHEET

EverStain™ Acid Stain (Black)

Revision Date 5/24/2021

SECTION – 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

| | | | |
|---|--------------------------------------|---------------|--|
| Product Name | EverStain™ Acid Stain (Black) | Item | |
| Product Use | Concrete Stain & Dye | | |
| Company Name | Direct Colors LLC | Office | (877) 255-2656 ext.1 |
| | 430 E 10th St | | |
| | Shawnee OK 74801 | Web | www.DirectColors.com |
| EMERGENCY TELEPHONE NUMBER INFOTRAC (800) 535-5053 | | | |

SECTION – 2 HAZARDS INFORMATION



Signal Word Danger

| Hazards | PHYSICAL / HEALTH / ENVIRONMENTAL HAZARD STATEMENTS | HAZARD CATEGORY CLASSIFICATION | CODE |
|----------------|---|--|-------------|
| | May be corrosive to metals | Category 1 Corrosive to Metals | H290 |
| | Harmful if swallowed | Category 4 Acute Toxicity (Oral) | H302 |
| | Causes severe skin burns and eye damage | Category 1B Skin & Eye (Corrosion) | H314 |
| | May cause an allergic skin reaction | Category 1 Sensitization (Skin) | H317 |
| | Causes serious eye damage | Category 1 Eye (Damage / Irritation) | H318 |
| | Harmful if inhaled | Category 4 Acute Toxicity (Inhaled) DM | H332 |
| | May cause allergy or asthma symptoms or breathing difficulties if inhaled | Category 1 Sensitization (Respiratory) | H334 |
| | May cause respiratory irritation | Category 3 STOT Single Exposure | H335 |
| | May cause genetic defects | Category 1 Germ Cell Mutagenicity | H340 |
| | May cause cancer | Category 1 Carcinogenicity | H350 |
| | May damage fertility or the unborn child | Category 1 Toxic To Reproduction | H360 |
| | Toxic to aquatic life | Category 2 Acute Toxicity (Aquatic) | H401 |
| | Toxic to aquatic life with long lasting effects | Category 2 Chronic Toxicity (Aquatic) | H411 |
| | Causes damage to organs through prolonged or repeated exposure <i>kidneys, liver, respiratory, skin ulceration</i> | Category 1 STOT Repeat Exposure | H372 |
| | May cause damage to organs through prolonged or repeated exposure <i>nervous systems, by inhalation of dust / mist, or ingestion</i> | Category 2 STOT Repeat Exposure | H373 |

| Precautions | HANDLING / PROTECTION / FIRE / STORAGE / DISPOSAL | CODE |
|--------------------|---|----------------|
| | Keep out of reach of children | P102 |
| | Obtain special instructions before use | P201 |
| | Do not handle until all safety precautions have been read and understood | P202 |
| | Keep only in original container | P234 |
| | Avoid breathing dust / fume / gas / mist / vapours / spray | P261 |
| | Do not get in eyes, on skin, or on clothing | P262 |
| | Wash thoroughly after handling | P264 |
| | Do not eat, drink or smoke when using this product | P270 |
| | Use only outdoors or in a well-ventilated area | P271 |
| | Contaminated work clothing should not be allowed out of the workplace | P272 |
| | Avoid release to the environment | P273 |
| | Wear protective gloves / protective clothing / eye protection / face protection | P280 |
| | In case of inadequate ventilation wear respiratory protection | P285 |
| | Absorb spillage to prevent material damage | P390 |
| | Collect spillage | P391 |
| | Store in a well-ventilated place, Store locked up, Keep container tightly closed | P403+P405+P233 |
| | Store in corrosive resistant container | P406 |
| | Dispose of material in accordance with all State and Federal Guidelines and Regulations | P501 |

SECTION – 3 COMPOSITION INFORMATION (Exact percentage of the listed chemicals of composition has been withheld as a trade secret)

| CHEMICAL NAME | COMMON NAME AND SYNONYMS | CAS # | IMPURITIES | PERCENT |
|------------------------|---|--------------|-------------------|----------------|
| Sodium Dichromate | Sodium Dichromate Dihydrate ; Sodium Bichromate | 7789-12-0 | | 1 - 20% |
| Manganese(II) Chloride | Manganese Dichloride | 7773-01-5 | | 1 - 20% |
| Hydrochloric Acid | Muriatic Acid | 7647-01-0 | Water < 70% | 1 - 15% |

SECTION – 4 FIRST AID MEASURES

| | |
|---------------------------|--|
| Eye Contact | Immediately flush eyes with cold water for at least 15 minutes while lifting upper and lower eyelids, Remove contact lenses if present and easy to do without injury to the eye and continue rinsing, Obtain immediate medical attention, preferably from an ophthalmologist or Emergency Room |
| Skin Contact | Immediately wash contaminated skin with a nonabrasive soap and plenty of water for at least 15 minutes, Be sure to remove any contaminated clothing and wash before reuse, If irritation is present or occurs obtain medical attention |
| Inhaled | Move person to fresh air, if they have problem breathing, show signs of overexposure or feel unwell obtain medical attention, If breathing is difficult, oxygen or artificial respiration should be administered by qualified personnel |
| Ingested | DO NOT INDUCE VOMITING, unless directed to do so by medical personnel, If person is fully conscious, rinse mouth with water, and drink small quantities of water, Call a physician, or poison control center, and get medical attention, If victim feels nauseous stop drinking, If vomiting occurs, keep head below hips to prevent aspiration into the lungs |
| Important Effects | Exposure can / may affect, eyes, kidneys, liver, nervous systems, respiratory, skin |
| Important Symptoms | Symptoms may include, allergic skin reactions, central nervous system depression, liver or kidney irregularities, corrosive burns to skin or eyes, allergic asthmatic breathing reactions, neurological disorders |

SECTION – 5 FIRE FIGHTING MEASURES

| | |
|--------------------------------|---|
| Extinguishing Media | Not flammable: Use extinguishing media for surrounding fire |
| Explosion Hazard | Not applicable |
| Hazardous Decomposition | Burning or thermal decomposition can produce, hydrogen chloride gas, magnesium oxides |
| Protective Equipment | Use MSHA/NIOSH approved self-contained breathing apparatus and full protective gear |

SECTION – 6 ACCIDENTAL RELEASE MEASURES

| | |
|-----------------------------|---|
| Emergency Procedures | Warn personnel of spill, Stop spill or release only if it can be done safely, Keep unprotected personnel from entering the hazard area, Ventilate area |
| Personal Precautions | Follow all safety precautions, Wear Personal Protective Equipment, Do not walk through spill |
| Protective Equipment | Safety Glasses, Gloves, Chemical Apron, Rubber Boots |
| Containment | Use rags, towels, absorbent socks or pads to prevent spill from spreading, Prevent spill from entering the environment, NOTE: Organic spill kits that contain Floor-Dri, kitty litter, or sand should NOT be used because Hydrogen Fluoride reacts with silica to produce silicon tetrafluoride, a toxic gas |
| Clean Up Procedures | Neutralize spill with soda ash, lime, sodium bicarbonate, or a spill absorbent specified for Hydrogen Fluoride. With clean shovel, carefully place material into clean appropriate waste disposal unit. Flush spill area with water, NOTE: Neutralized Hydrofluoric Acid can still be Toxic, observe all safety precautions |
| Disposal | Dispose of material in accordance with all State and Federal Guidelines and Regulations |

SECTION – 7 HANDLING AND STORAGE

| | |
|-------------------------------|---|
| Handling | Do not get in eyes, on skin, or clothing, Avoid breathing mist, vapors or fumes, Use appropriate safety equipment, and adequate ventilation, Do not smoke, eat or drink while using, Wash thoroughly with soap and water after handling, Avoid release to the environment |
| Storage | Keep container closed when not in use, Store in a cool place away from incompatible materials, Store in corrosive resistant container |
| Incompatible Materials | Incompatible with, amines, bases, hexalithium disilicide, hydrogen peroxide, metal acetylides, permanganates, potassium, sodium, strong acids, sodium oxides, alkaline earth metals, zinc |

SECTION – 8 EXPOSURE CONTROLS / PERSONAL PROTECTION**EXPOSURE LIMITS**

| CHEMICAL NAME | ACGIH (TWA 8) | ACGIH (STEL) | OSHA (TWA 8) | OSHA (CEIL) | NIOSH (TWA 10) | NIOSH (STEL) | Significant Exposure |
|------------------------|--------------------------------|------------------------------------|---------------------------------|------------------------------------|---------------------------------|---------------------|----------------------|
| Sodium Dichromate | (as Cr) 0.05 mg/m ³ | (as Cr VI) 0.001 mg/m ³ | (as Cr) 0.005 mg/m ³ | (as Cr VI) 0.001 mg/m ³ | (as Cr) 0.001 mg/m ³ | | |
| Manganese(II) Chloride | 0.1 mg/m ³ | | 5 mg/m ³ | | 1 mg/m ³ | 3 mg/m ³ | CNS |
| Hydrochloric Acid | | 2 ppm (CEIL) | | 5 ppm (7 mg/m ³) | | 5 ppm (CEIL) | ED,SD,RT |

PERSONAL PROTECTION

| | |
|--------------------|---|
| Eyes | Wear safety glasses or goggles or face shield when handling / using this material |
| Hands | Wear chemical resistant impervious gloves when handling / using this material |
| Lungs | Wear a MSHA / NIOSH approved respirator at or above listed TLV's or if irritation is experienced |
| Body | "If Situation Requires" - Wear chemical resistant impervious protective clothing if exposure is considered to be likely when handling / using this material |
| Feet | "If Situation Requires" - Wear chemical resistant impervious footwear if exposure is considered to be likely when handling / using this material |
| Response | Access to a drench shower with eye wash station is a recommended safety precaution for handling / using this type of material |
| Ventilation | Ventilate to keep vapors of this material below the lowest ppm listed above, If over Threshold Limit Value use a MSHA / NIOSH approved respirator for organic vapor, supplied air or self-contained breathing apparatus |

HMS HAZARD RATINGS

| | |
|---------------------|---|
| Health | 3 |
| Flammability | 0 |
| Reactivity | 1 |
| Personal Protection | H |

SECTION – 9 PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|----------------------|-----------------------------------|-------------------------------------|---------|
| Flash Point | > 93.3°C (200°F) - TAG Closed Cup | Specific Gravity / Density | ~ 1.413 |
| Flammable Limits (v) | ND | pH (± 0.3) | < 2.0 |
| Auto-Ignition Temp. | ND | Viscosity (mm ² s / cSt) | ND |
| Physical State | Liquid | Melting Point | ND |
| Appearance | Black | Boiling Point | ND |
| Odor | Acidic | Vapor Density (air=1) | ND |
| Odor Threshold | ND | Vapor Pressure (mmHg) | ND |
| Solubility | < 79% | Evaporation Rate (nBuAc=1) | ND |
| Volatiles | < 75% | Partition Coefficient | ND |
| VOC | 0% | Molecular Weight (g/mol) | ~ 52.90 |
| LVP-VOC | 0% | Decomposition Temperature | ND |

SECTION – 10 STABILITY AND REACTIVITY

| | |
|--------------------------|---|
| Chemical Stability | Stable under normal ambient and anticipated conditions of use |
| Hazardous Polymerization | Will not occur |
| Conditions To Avoid | Incompatible materials |
| Incompatible Materials | Incompatible with, amines, bases, hexalithium disilicide, hydrogen peroxide, metal acetylides, permanganates, potassium, sodium, strong acids, sodium oxides, alkaline earth metals, zinc |
| Hazardous Decomposition | Burning or thermal decomposition can produce, hydrogen chloride gas, magnesium oxides |

SECTION – 11 TOXICOLOGICAL INFORMATION**ROUTES OF EXPOSURE**

Eyes (Yes), Skin (Yes), Ingestion (Yes), Inhalation (Yes)

ACUTE SYMPTOMS OF SINGLE OVEREXPOSURE

| | |
|------------|--|
| Eyes | Causes serious eye damage |
| Skin | May cause allergic skin reaction, Can cause serious skin damage |
| Inhalation | Harmful if inhaled, Mist, vapor or fumes may cause, respiratory irritation, allergic reactions, breathing difficulties |
| Ingestion | Harmful if swallowed, May affect target organs |

CHRONIC SYMPTOMS OF PROLONGED OR REPEATED OVEREXPOSURE

| | |
|------------|--|
| Eyes | Causes serious eye damage, corneal injury, partial or complete blindness |
| Skin | May cause allergic skin reaction, Causes serious skin damage, ulcerations, corrosive burns |
| Inhalation | Harmful if inhaled, Mist, vapor or fumes may cause, respiratory irritation, neurological effects, allergic reactions, asthmatic symptoms, May affect target organs, respiratory system, nervous system, liver, kidneys |
| Ingestion | Harmful if swallowed, Ingestion may affect, liver, kidneys, respiratory system, nervous system, Symptoms may include, nausea, vomiting, abdominal pain, liver or kidney irregularities, neurological disorders |

| | | | | | | |
|----------------------|-------|-----------|---------|--------------|----------|----------|
| Acute Tox Calculated | Oral: | 464 mg/kg | Dermal: | 14,493 mg/kg | Inhaled: | 1.8 mg/l |
|----------------------|-------|-----------|---------|--------------|----------|----------|

| | |
|--------------------|---|
| Acute Tox Category | Category 4 (Oral >300, ≤2,000 mg/kg), Not applicable (Dermal >2,000 mg/kg), Category 4 (Inhaled >1.0, ≤5 mg/l) Dust or Mist |
|--------------------|---|

Additional Info

| | |
|---------------|---|
| Target Organs | Kidneys, Liver, Mucous Membranes, Skin, Eyes, Respiratory System, Nervous Systems |
|---------------|---|

| | |
|--------------------|---|
| Medical Conditions | Preexisting, eye, skin, liver, kidney, respiratory, mucous membranes, disorders may be aggravated by exposure to this product |
|--------------------|---|

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|--------------------|---|
| Notes to Physician | Treat symptoms, No specific recommendations known |
|--------------------|---|

CARCINOGENIC – This product contains concentrations above 0.1% of the following:

| <u>CHEMICAL NAME</u> | <u>NTP</u> | <u>ACGIH</u> | <u>IARC</u> | <u>GHS Category</u> |
|----------------------|-----------------|--------------------------|----------------------|---------------------|
| Sodium Dichromate | K (Known to be) | A1 (Confirmed for human) | 1 (Proven for human) | Category 1B |

MUTAGENIC AND REPRODUCTIVE EFFECTS – This product contains concentrations above 0.1% of the following:

| <u>CHEMICAL NAME</u> | <u>Germ Cell Mutagenicity</u> | <u>Toxic to Reproduction</u> |
|----------------------|-------------------------------|------------------------------|
| Sodium Dichromate | Yes | Yes |

COMPONENTS ACUTE TOXICITY

| <u>CHEMICAL NAME</u> | <u>Type</u> | <u>Form</u> | <u>Subject</u> | <u>Result Value</u> | <u>Exposure Time</u> | <u>GHS Category</u> |
|------------------------|-------------|-------------|----------------|---------------------|----------------------|------------------------|
| Hydrochloric Acid | LD50 | Oral | Rat | 700 mg/kg | | 4 (>300, ≤2000 mg/kg) |
| | LD50 | Dermal | Rat | 5,010 mg/kg | | (>2000 mg/kg) |
| | LC50 | Inhaled | Rat | 781 mg/l | 4 Hours (Mist) | (>20 mg/l) |
| Manganese(II) Chloride | LD50 | Oral | Rat (F) | 236 mg/kg | | 3 (>50, ≤300 mg/kg) |
| | LD50 | Oral | Rat | 50 mg/kg | | 2 (>5, ≤50 mg/kg) |
| Sodium Dichromate | LD50 | Oral | Rat | 0.124 mg/l | 4 Hour (Dust) | 1 (≤0.05 mg/l) |
| | LC50 | Inhaled | Rat | 0.124 mg/l | | |
| | LD50 | Dermal | Rabbit | 1000 mg/kg | | 4 (>1000, ≤2000 mg/kg) |


SECTION – 12 ECOLOGICAL INFORMATION

| <u>CHEMICAL NAME</u> | <u>Type</u> | <u>Subject</u> | <u>Subject Latin</u> | <u>Result Value</u> | <u>Exposure Time</u> | <u>GHS Category</u> |
|--------------------------------------|---|----------------|--------------------------|---------------------|----------------------|---------------------|
| Hydrochloric Acid | LC50 | Mosquito Fish | (Gambusia affinis) | 282 mg/l | 96 Hours | 4 (>100 mg/l) |
| Manganese(II) Chloride | EC50 | Water Flea | (Daphnia magna) | 9.8 mg/l | 48 Hours | 2 (>1, ≤10 mg/l) |
| | EC50 | Green Algae | (Pseudokirchneriella s.) | 3.83 mg/l | 72 Hours | 2 (>1, ≤10 mg/l) |
| Sodium Dichromate | LC50 | Fathead Minnow | (Pimephales promelas) | 33.2 mg/l | 96 Hours | 3 (>10, ≤100 mg/l) |
| | EC50 | Green Algae | (Selenastrum capricorn) | 0.217 mg/l | 96 Hours | 1 (≤1 mg/l) |
| | EC50 | Water Flea | (Daphnia magna) | 0.112 mg/l | 48 Hours | 1 (≤1 mg/l) |
| Persistence And Degradability | When released into the soil, this material is not expected to biodegrade | | | | | |
| Bioaccumulative Potential | Has low potential for bioaccumulation due to its high solubility in water | | | | | |
| Mobility In Soil | This material is a mobile liquid | | | | | |
| Other Adverse Effects | Toxic to aquatic life with long lasting effects | | | | | |

SECTION – 13 DISPOSAL CONSIDERATIONS

| | |
|---------------------------|--|
| Disposal Statement | DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER Dispose of any waste in accordance with all State and Federal Guidelines and Regulations |
| Container Disposal | Empty containers retain product residue (vapors, liquid or solid) observe all precautions when handling, Empty drums should be returned to distributor or taken to an approved waste handling site for recycling or disposal |
| Material Disposal | This material as supplied, when discarded or disposed of, is a hazardous waste according to Federal Regulations (40 CFR 261) due to its composition containing in some or all of its components, Under RCRA rules, it is the responsibility of the user of the product to determine, at the time of disposal, whether the material is a hazardous waste, Chemical additions, processing or otherwise altering this material may make the waste management information presented in this SDS incomplete, inaccurate, or otherwise inappropriate |

SECTION – 14 TRANSPORT INFORMATION**DOT CLASSIFICATION**

| | | | | | | |
|---------------------|--|--------------------|---------------------------------|-----------------|-------------------------|--|
| UN Number | Proper Shipping Name n.o.s. (Chemicals) or "Limits" | | | | | |
| UN 3264 | CORROSIVE, LIQUID, ACIDIC, INORGANIC, n.o.s.(Hydrochloric Acid, Sodium Dichromate) | | | | | |
| Hazard Class | Packing Group | Label Codes | Reportable Quantity (lb) | Response | Marine Pollutant | Hazard Label |
| 8 | II | Corrosive Liquid | > (50,000) | 154 | No |  |

Additional Info:

SECTION – 15 REGULATORY INFORMATION**TSCA**

| <u>CHEMICAL NAME</u> | <u>Sec 8(b) Active Inventory</u> | <u>Sec 8(d) Health And Safety</u> | <u>Sec 4(a) Chemical Test Rules</u> | <u>Sec 12(b) Export Notification</u> |
|------------------------|----------------------------------|-----------------------------------|-------------------------------------|--------------------------------------|
| Sodium Dichromate | Yes | | | |
| Manganese(II) Chloride | Yes | | | |
| Hydrochloric Acid | Yes | | | |

REPORTABLE QUANTITIES

| <u>CHEMICAL NAME</u> | <u>Extremely Hazardous</u> | | <u>Reportable Quantity</u> | <u>Emission Reporting</u> | | |
|----------------------|----------------------------|-------------------------|----------------------------|---------------------------|------------------|------------------------|
| | <u>EPCRA TPQ Sec 302</u> | <u>EPCRA RQ Sec 304</u> | <u>CERCLA RQ Sec 103</u> | <u>TRI Sec 313</u> | <u>RCRA Code</u> | <u>RMP TQ Sec 112r</u> |
| Hydrochloric Acid | | | 5000 | | | |
| Sodium Dichromate | | | | Yes | | |

SARA

| <u>CHEMICAL NAME</u> | <u>Section 311</u> | | <u>Section 311 / 312 Hazards</u> | | | |
|------------------------|---------------------------|--------------|----------------------------------|------------------|-----------------|-----------------|
| | <u>Hazardous Chemical</u> | <u>Acute</u> | <u>Chronic</u> | <u>Flammable</u> | <u>Pressure</u> | <u>Reactive</u> |
| Sodium Dichromate | Yes | Yes | Yes | | | Yes |
| Manganese(II) Chloride | Yes | Yes | | | | |
| Hydrochloric Acid | Yes | Yes | | | | |

RIGHT TO KNOW

| <u>CHEMICAL NAME</u> | <u>STATE</u> | | | | | | | | | | | | |
|------------------------|--------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | <u>CA</u> | <u>CT</u> | <u>FL</u> | <u>IL</u> | <u>LA</u> | <u>NJ</u> | <u>NY</u> | <u>PA</u> | <u>MI</u> | <u>MN</u> | <u>MA</u> | <u>RI</u> | <u>WI</u> |
| Sodium Dichromate | | | | | | | | Yes | | | | | |
| Manganese(II) Chloride | | | | | | | | Yes | | | | | |
| Hydrochloric Acid | Yes | | | | Yes | Yes | Yes | Yes | | Yes | Yes | Yes | |

CALIFORNIA

WARNING: This Product can expose you to chemicals (Listed below) known to the State of California to cause cancer, birth defects or reproductive harm. For more information go to www.P65Warnings.ca.gov

| <u>CHEMICAL NAME</u> | <u>CAS #</u> | <u>Birth Defects</u> | <u>Reproductive Harm</u> | <u>Carcinogen</u> | <u>Developmental</u> |
|----------------------|--------------|----------------------|--------------------------|-------------------|----------------------|
| Chromium Compounds | | | | Yes | |

| CLEAN AIR WATER ACTS | | Clean Air Acts | | | Clean Water Acts | | |
|----------------------|-----------|----------------|---------------|---------------|------------------|----|----|
| CHEMICAL NAME | CAS # | HAP | Ozone Class 1 | Ozone Class 2 | HS | PP | TP |
| Hydrochloric Acid | 7647-01-0 | Yes | | | | | |

INTERNATIONAL REGULATIONS – The components of this product are listed on the chemical inventories of the following countries:

| CHEMICAL NAME | Australia | Canada | Europe (EINECS) | Japan | Korea | UK |
|-------------------|-----------|--------|-----------------|-------|-------|-----|
| Hydrochloric Acid | Yes | Yes | Yes | Yes | Yes | Yes |

SECTION – 16 OTHER INFORMATION

SDS LEGEND DESCRIPTION

| | | | |
|----------------|---|--------------|--|
| ~ | Approximately | KD | Kidney Damage (nephropathy) |
| ACGIH | American Conference of Governmental Industrial Hygienists | LC50 | A concentration that is lethal to 50% of a given species in a given time |
| CAS | Chemical Abstracts Service Registry | LD50 | Dose that is lethal to 50% of a given species by a given route of exposure |
| CEIL | Ceiling Limit (15 minutes) | LEL | Lower Explosive Limit |
| CERCL | Comprehensive Environmental Response, Compensation, and Liability Act | LD | Liver Damage |
| CI | Cochlear Impairment | NA | Not Applicable |
| CNS | Central Nervous System | ND | Not Determined |
| EC50 | Concentration of a chemical that gives half-maximal response | NE | Not Established |
| EPA | Environmental Protection Agency | NFPA | National Fire Protection Association |
| Eye | (EI = Irritation) (ED = Damage) (EV = Visual Impairment) | NIOSH | National Institute for Occupational Safety and Health |
| FBG | Full Bunker Gear | NTP | National Toxicology Program |
| GHS | Globally Harmonized System | OSHA | Occupational Safety and Health Administration |
| HAP | California Hazardous Air Pollutant Clean Air Act | PEL | Permissible Exposure Limit (OSHA) |
| HMIS-A | Safety glasses | PNS | Peripheral Nervous System |
| HMIS-B | Safety glasses, gloves | PP | California Priority Pollutant under the Clean Water Act |
| HMIS-C | Safety glasses, gloves, chemical apron | REL | Recommended exposure limit (NIOSH) |
| HMIS-D | Face shield, gloves, chemical apron | RT | Upper Respiratory Tract |
| HMIS-E | Safety glasses, gloves, dust respirator | Skin | (SI = Irritation) (SD = Damage) (SA = Absorption) (SS = Sensitizer) |
| HMIS-F | Safety glasses, gloves, chemical apron, dust respirator | SARA | Superfund Amendments and Reauthorization Act |
| HMIS-G | Safety glasses, gloves, vapor respirator | STEL | Short Term Exposure Limit (15 minutes) |
| HMIS-H | Splash goggles, gloves, chemical apron, vapor respirator | TC Lo | Lowest concentration that is toxic to a given species in a given time |
| HMIS-I | Safety glasses, gloves, dust and vapor respirator | TD Lo | Lowest dose that is toxic to a given species |
| HMIS-J | Splash goggles, gloves, chemical apron, dust and vapor respirator | TLV | Threshold Limit Value (ACGIH) |
| HMIS-K | Air line hood or mask, gloves, full chemical suit, boots | TP | California Toxic Pollutant under the Clean Water Act |
| HMIS-X | Ask Supervisor | TSCA | Toxic Substances Control Act |
| HS | California Hazardous Substance under the Clean Water Act | TWA | Time Weighted Average (8 hours) - NOISH (10 hours) |
| IG / IH | (IG = Ingested) / (IH = Inhaled - Vapors / Mists / Gas) | UEL | Upper Explosive Limit |

Direct Colors LLC

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