

SAFETY DATA SHEET

1.0 IDENTIFICATION

- 1.1 **GHS product identifier:** Water-based Polyurethane 550, Part A
- 1.2 **Other means of identification:** Waterborne resin dispersion
- 1.3 **Recommended use of the chemical and restrictions on use:** N/A
- 1.4 **Supplier's details:** DIRECT COLORS, INC.
430 EAST 10TH STREET
SHAWNEE, OK 74801
INFORMATION PHONE NUMBER: 405-275-6657
- 1.5 **Emergency phone number:** 1-800-262-8200

2.0 HAZARDS IDENTIFICATION

- 2.1 **Classification of the substance or mixture:**
Acute Toxicity – Dermal 5, Skin Corrosion/Irritant 5, Eye Damage/Irritation 5, Oral 5, Inhalation 5
- 2.2 **GHS label elements:**

Signal Word: Warning

Hazard Statement: May be harmful in contact with skin

Prevention: Wear protective gloves/protective clothing.

Response: If on skin: wash with plenty of soap and water. Call a poison center or doctor/physician if you feel unwell. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Call a physician if irritation persists. Wash contaminated clothing before reuse.

Disposal: Dispose of in accordance with federal, state, and local regulations.

Signal Word: Warning

Hazard Statement: May cause eye irritation

Prevention: Flush eyes thoroughly after eye contact.

Response: If in eyes: 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.

Signal Word: Warning

Hazard Statement: May be harmful if swallowed

Prevention: Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product.

Response: If swallowed: Call a poison center or doctor/physician if you feel unwell. Rinse mouth.

Disposal: Dispose of in accordance with federal, state, and local regulations.

Signal Word: Warning

Hazard Statement: May be harmful if inhaled

Prevention: Avoid breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area.

Response: If inhaled: remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison center or doctor/physician if you feel unwell.

- 2.3 **Other hazards which do not result in classification:** N/A
- 2.4 **Hazards Material Information System (United States):**

Health	1
Flammability	0
Physical Hazard	0

Hazard Codes: 0=Minimal Hazard, 1=Slight Hazard, 2=Moderate Hazard, 3=Serious Hazard, 4=Severe Hazard

3.0 COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Mixtures

Chemical Identity	CAS No.	Concentration
water	7732-18-5	40-50%

The remaining components are proprietary.

4.0 FIRST-AID MEASURES

4.1 Description of necessary first-aid measures:

Eye Contact: Remove contact lenses at once. Flush eyes with water for at least 15 minutes while holding eyelids apart. Seek medical attention if irritation develops.

Skin Contact: Remove contaminated clothing and wash exposed area with soap and water.

Inhalation: Remove to fresh air if effects occur. If not breathing, give artificial respiration. **Get immediate medical attention.**

Ingestion: Keep person warm and quiet and get medical attention. Do not induce vomiting.

4.2 Most Important symptoms/effects, acute and delayed:

Aggravated Medical Conditions: Overexposure to vapor, dust, or mist may aggravate existing respiratory conditions, such as asthma, bronchitis, and inflammatory or fibrotic respiratory disease.

Other Health Effects: Unknown

4.3 Indication of immediate medical attention and special treatment needed, if necessary: Note to Physician:

Treatment based on judgment of the physician in response to reactions of the patient. Contact a poison control center for additional treatment information.

5.0 FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing media: Use water spray, dry chemical, foam, or carbon dioxide. Water or foam may cause frothing. Use water to cool fire-exposed containers. If a leak or spill has not ignited, use water spray to disperse the vapors and to provide protection for persons attempting to stop the leak.

5.2 Specific hazards arising from the chemical: Hazardous combustion products may include intense heat, carbon monoxide, carbon dioxide, dense smoke and irritating vapors.

5.3 Special protective actions for fire-fighters: Use a positive pressure self-contained breathing apparatus.

6.0 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures: Ventilate the area. Avoid breathing vapor. Use self-contained breathing apparatus or supplied air for large spills or confined areas.

6.2 Methods and materials for containment and clean up: Contain spill if possible. Wipe up or absorb on suitable material and pick up with shovels. Prevent entry into sewers and waterways. Dispose of in accordance with federal, state, and local regulations.

7.0 HANDLING AND STORAGE

7.1 Precautions for safe handling: Ground all transfer equipment. Take precautionary measures against static discharge. Handle as an industrial chemical.

7.2 Conditions for safe storage, including any incompatibilities: Keep container tightly closed when not in use. Practice good caution and personal cleanliness to avoid skin and eye contact. Hold bulk storage under nitrogen blanket. Store in a cool, dry place with adequate ventilation. Keep away from open flames and high temperatures.

8.0 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Component	CAS No.	Percent	Exposure Limits	Source
water	7732-18-5	40-50%	None established	

8.2 Appropriate engineering controls: N/A

8.3 Individual protection measures, such as personal protective equipment:

Respiratory Protection: Airborne concentrations should be kept to lowest levels possible. Use in an appropriately ventilated area. Selection of air-purifying or positive-pressure supplied air will depend on the specific operation and the potential airborne concentration of the material. For emergency conditions, use an approved positive-pressure self-contained breathing apparatus.

Protective Clothing: Protective clothing such as uniforms, coveralls, or lab coats must be worn. Launder or dry-clean when soiled. Gloves and goggles resistant to chemicals and petroleum distillates required.

9.0 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Appearance (physical state, color, etc.): Light straw colored liquid

9.2 Odor: slight ammonia odor.

9.3 Odor threshold: N/A

9.4 pH: 8-9

9.5 Melting point/freezing point: N/A

- 9.6 **Initial boiling point and boiling range:** >200° C
- 9.7 **Flash Point:** >250° F
- 9.8 **Evaporation rate:** .07
- 9.9 **Flammability (solid, gas):** N/A
- 9.10 **Upper/lower flammability or explosive limits:** Not established
- 9.11 **Vapor pressure:** 29.33 mm/Hg @ 68° F
- 9.12 **Vapor Density:** .569 @ 25° C
- 9.13 **Relative density (specific gravity):** 1.06
- 9.14 **Solubility(ies):** complete (in water)
- 9.15 **Partition coefficient; n-octanol/water:** N/A
- 9.16 **Auto-ignition temperature:** N/A
- 9.17 **Decomposition temperature:** N/A
- 9.18 **Viscosity:** N/A

10.0 STABILITY AND REACTIVITY

- 10.1 **Reactivity:** N/A
- 10.2 **Chemical stability:** Stable under normal conditions of handling.
- 10.3 **Possibility of hazardous reactions:** Will not occur.
- 10.4 **Conditions to avoid:** High temperatures over 70°C, freezing temperatures and open flame.
- 10.5 **Incompatible materials:** N/A
- 10.6 **Hazardous decomposition products:** Carbon monoxide, Carbon dioxide, dense smoke, irritating vapors

11.0 TOXICOLOGICAL INFORMATION

- 11.1 **Likely routes of exposure:** N/A
- 11.2 **Symptoms related to the physical, chemical and toxicological characteristics:**
 - Eye Contact:** May cause eye irritation.
 - Skin Contact:** May cause dermal irritation.
 - Inhalation:** Excessive inhalation of vapors may cause nasal and respiratory irritation.
 - Ingestion:** Can cause gastrointestinal irritation, nausea, vomiting and diarrhea.
- 11.3 **Delayed and immediate effects and also chronic effects from short and long term exposure:** N/A
- 11.4 **Numerical measures of toxicity:**

Ingredient Name	CAS No.	%	Acute Oral LD50	Acute Dermal LD50	Acute Inhalation LC50
water	7732-18-5	40-50%	Not established	Not established	Not established

12.0 ECOLOGICAL INFORMATION

- 12.1 **Ecotoxicity:** N/A
- 12.2 **Persistence and degradability:** N/A
- 12.3 **Bioaccumulative potential:** N/A
- 12.4 **Mobility in soil:** N/A
- 12.5 **Other adverse effects:** N/A

13.0 DISPOSAL CONSIDERATIONS

- 13.1 **Disposal methods:** Dispose of in accordance with federal, state, and local regulations.

14.0 TRANSPORT INFORMATION

- 14.1 **UN number:** Not regulated
- 14.2 **UN proper shipping name:** N/A
- 14.3 **Transport hazard class(es):** N/A
- 14.4 **Packing group, if applicable:** N/A
- 14.5 **Environmental hazards:** N/A
- 14.6 **Transport in bulk:** N/A
- 14.7 **Special precautions for user:** N/A

15.0 REGULATORY INFORMATION

15.1 Safety, health and environmental regulations:

Not meant to be all-inclusive. Selected regulations presented.

A. SARA Title III Section 311/312: Immediate (eye irritant)

B. WHMIS Classification: Residual component(s) are below the concentration threshold listed of the ingredient disclosure list.

C. TSCA Status: Listed on TSCA Inventory

D. OSHA Hazard Comm. Std.: See Section 2

CA = California Haz. Subst. List; CA65 = California Safe Drinking Water and Toxics Enforcement Act List; CT = Connecticut Tox. Subst. List; FL = Florida Subst. List; IL = Illinois Tox. Subst. List; LA = Louisiana Haz. Subst. List; MA = Massachusetts Subst. List; ME = Maine Haz. Subst. List; MN = Minnesota Haz. Subst. List; NJ = New Jersey Haz. Subst. List; PA = Pennsylvania Haz. Subst. List; RI = Rhode Island Haz. Subst. List.

16.0 OTHER INFORMATION

16.1 Date of Preparation: 6/1/2015

To the best of our knowledge, the information contained herein is accurate. Final determination of the suitability of any material is the sole responsibility of the users. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist.