

# SAFETY DATA SHEET

Issue Date 25-Oct-2018 Revision Date 09-Dec-2020 Version 4

ES-600 E-Stain Ebony ES-600

# 1. IDENTIFICATION

Product identifier

Product Name E-Stain Ebony ES-600

Other means of identification

Product Code ES-600

Recommended use of the chemical and restrictions on use

Recommended Use Restricted to professional users.

Uses advised against Consumer use

Details of the supplier of the safety data sheet

Supplier AddressManufacturer AddressSolomon Colors, Inc.Solomon Colors, Inc.4050 Color Plant Road4050 Color Plant Road

Springfield, IL Springfield, IL

62702 62702

24 Hour Emergency Phone Number 800-373-7542 Use only in the event of an emergency involving a spill, leak, fire, exposure,

or accident involving chemical

## 2. HAZARDS IDENTIFICATION

## Classification

#### **OSHA Regulatory Status**

This product is classified as hazardous according to the criteria contained in the Hazard Communication Standard 29 CFR 1910.1200 (known as HCS 2012) and the Hazardous Products Regulations SOR/2015-17 (known as WHMIS 2015).

Acute toxicity - Oral	Category 4.
Acute toxicity - Inhalation (Dusts/Mists)	Category 3
Skin corrosion/irritation	Category 1
Subcategory	Sub-category B
Serious eye damage/eye irritation	Category 1
Respiratory sensitization	Category 1
Skin sensitization	Category 1
Germ cell mutagenicity	Category 1B
Carcinogenicity	Category 1A
Reproductive toxicity	Category 1B
Specific target organ toxicity (repeated exposure)	Category 1

## Label elements

Emergency Overview	۷
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Danger			
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Hazard statements

Harmful if swallowed

Toxic if inhaled

Causes severe skin burns and eye damage

May cause allergy or asthma symptoms or breathing difficulties if inhaled

May cause an allergic skin reaction

May cause genetic defects

May cause cancer

May damage fertility or the unborn child

Causes damage to organs through prolonged or repeated exposure



Appearance Cloudy liquid

Physical state Liquid

Odor Slight

#### **Precautionary Statements - Prevention**

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Use only outdoors or in a well-ventilated area

Wear protective gloves/protective clothing/eye protection/face protection

In case of inadequate ventilation wear respiratory protection

Contaminated work clothing must not be allowed out of the workplace

Do not breathe dust/fume/gas/mist/vapors/spray

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

## **Precautionary Statements - Response**

Immediately call a POISON CENTER or doctor

Specific treatment see section 4 of the SDS.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower

If skin irritation or rash occurs: Get medical advice/attention

Wash contaminated clothing before reuse

IF INHALED: Remove person to fresh air and keep comfortable for breathing

Immediately call a POISON CENTER or doctor

Rinse mouth

IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell

Do NOT induce vomiting

#### **Precautionary Statements - Storage**

Store in a well-ventilated place. Keep container tightly closed Store locked up

## **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

## Hazards not otherwise classified (HNOC)

#### Other Information

• Very toxic to aquatic life with long lasting effects

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight-%	Trade Secret

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Proprietary Acid Solution	Proprietary	10-15	*
Manganese Chloride	7773-01-5	5-10	*
Sodium dichromate	10588-01-9	4-7	*

<sup>\*</sup>The exact percentage (concentration) of composition has been withheld as a trade secret.

#### 4. FIRST AID MEASURES

#### Description of first aid measures

General advice In case of accident or unwellness, seek medical advice immediately (show directions for

use or safety data sheet if possible).

Eye contact IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Immediate medical attention is required.

Skin Contact IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin

with water/shower.

**Inhalation** IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for

breathing. Artificial respiration and/or oxygen may be necessary. Call a physician or poison

control center immediately.

Ingestion If swallowed, call a poison control center or physician immediately. Clean mouth with water

and drink afterwards plenty of water.

#### Most important symptoms and effects, both acute and delayed

Symptoms May be harmful if swallowed. May be toxic if inhaled. Causes severe skin burns and eye

damage. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. May cause cancer. May cause genetic defects. May damage fertility or the unborn child. Causes damage to organs through prolonged or

repeated exposure.

#### Indication of any immediate medical attention and special treatment needed

## 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media Caution: Use of water spray when fighting fire may be inefficient.

## Specific hazards arising from the chemical

Contact with metals may evolve flammable hydrogen gas. Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes. Runoff may pollute waterways.

Hazardous combustion products Thermal decomposition can lead to the release of irritating gases and vapors. Carbon monoxide. Carbon dioxide (CO2). Hydrogen chloride. Sulfur Oxides. Copper Oxides.

Nitrogen evides (NOv)

Nitrogen oxides (NOx).

Explosion data

**Sensitivity to Mechanical Impact** None. **Sensitivity to Static Discharge** None.

## Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full

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# 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Keep people away from and upwind of spill/leak. Ventilate affected area. Avoid contact with

skin, eyes and inhalation of vapors. Do not touch damaged containers or spilled material

unless wearing appropriate protective clothing. Stop leak if you can do it without risk.

Use personal protection recommended in Section 8. For emergency responders

**Environmental precautions** 

**Environmental precautions** Prevent entry into waterways, sewers, basements or confined areas. Prevent further

leakage or spillage if safe to do so. See Section 12 for additional ecological information.

Methods and material for containment and cleaning up

**Methods for containment** Dike far ahead of liquid spill for later disposal. Contain and collect spillage with

> non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).

Methods for cleaning up Pick up and transfer to properly labeled containers.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

## 7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Use personal protective equipment as required. Avoid contact with skin, eves or clothing.

Wash contaminated clothing before reuse. Avoid breathing vapors or mists. Wash

thoroughly after handling.

Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep container tightly closed in a dry and well-ventilated place. Keep/store only in original

container. Keep in properly labeled containers. Keep from freezing. Do not reuse container.

Incompatible materials Strong oxidizing agents, Metals, Magnesium, Phosphates, Acetylene, Hydrazine, and

Zirconium. This material may be extremely hazardous in contact with chlorates and nitrates. Contact with hypochlorites (eg. Chlorine bleach, sulfides or cyanides) will liberate toxic

gases. Alkali.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Manganese Chloride	TWA: 0.02 mg/m <sup>3</sup> Mn respirable	(vacated) Ceiling: 5 mg/m <sup>3</sup>	IDLH: 500 mg/m <sup>3</sup> Mn
7773-01-5	particulate matter	Ceiling: 5 mg/m <sup>3</sup> Mn	TWA: 1 mg/m <sup>3</sup> Mn
	TWA: 0.1 mg/m <sup>3</sup> Mn inhalable		STEL: 3 mg/m <sup>3</sup> Mn
	particulate matter		_
Sodium dichromate	STEL: 0.0005 mg/m <sup>3</sup> Cr(VI)	TWA: 5 µg/m³	IDLH: 15 mg/m <sup>3</sup> Cr(VI)
10588-01-9	inhalable particulate matter	(vacated) Ceiling: 0.1 mg/m <sup>3</sup>	TWA: 0.0002 mg/m <sup>3</sup> Cr
	TWA: 0.0002 mg/m <sup>3</sup> Cr(VI)	Ceiling: 0.1 mg/m³ CrO3 applies to	_
	inhalable particulate matter	any operations or sectors for which	
	S*	the Hexavalent Chromium standard	
		[29 CFR 1910.1026] is stayed or is	
		otherwise not in effect	

NIOSH IDLH Immediately Dangerous to Life or Health

Other Information Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d

962 (11th Cir., 1992).

**Appropriate engineering controls** 

**Engineering Controls** Ensure adequate ventilation, especially in confined areas. Showers

Eyewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment

**Eye/face protection** Tight sealing safety goggles. Face protection shield.

**Skin and body protection**Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls,

as appropriate, to prevent skin contact.

**Respiratory protection** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved

respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be

provided in accordance with current local regulations.

General Hygiene Considerations Wash face, hands and any exposed skin thoroughly after handling. Use personal protective

equipment as required. Avoid prolonged or repeated contact with skin. Avoid breathing

(dust, vapor, mist, gas). Wash contaminated clothing before reuse.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

## Information on basic physical and chemical properties

Physical state Liquid

AppearanceCloudy liquidOdorSlight

ColorGreenOdor thresholdNo information available

PropertyValuesRemarks• MethodpHNo information available

No information available

No information available No information available

Melting point/freezing point Boiling point / boiling range Flash point

Evaporation rate

Flammability (solid, gas)

Flammability Limit in Air

No information available
No information available

Upper flammability limit:No information availableLower flammability limit:No information availableVapor pressureNo information available

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Vapor density No information available **Specific Gravity** No information available Water solubility No information available Solubility in other solvents No information available Partition coefficient No information available **Autoignition temperature** No information available **Decomposition temperature** No information available Kinematic viscosity No information available **Dynamic viscosity** No information available **Explosive properties** No information available Oxidizing properties No information available

#### **Other Information**

Softening pointNo information availableMolecular weightNo information availableVOC Content (%)No information availableDensityNo information available

Bulk density 9.7 lbs/gal

## 10. STABILITY AND REACTIVITY

#### Reactivity

No data available

#### **Chemical stability**

Stable under recommended storage conditions.

## **Possibility of Hazardous Reactions**

None under normal processing.

#### **Conditions to avoid**

Extremes of temperature and direct sunlight.

#### Incompatible materials

Strong oxidizing agents. Metals. Magnesium, Phosphates, Acetylene, Hydrazine, and Zirconium. This material may be extremely hazardous in contact with chlorates and nitrates. Contact with hypochlorites (eg. Chlorine bleach, sulfides or cyanides) will liberate toxic gases. Alkali.

#### **Hazardous Decomposition Products**

Thermal decomposition can lead to release of irritating and toxic gases and vapors. Hydrogen chloride. Sulfur oxides. Copper Oxides. Nitrogen oxides (NOx).

## 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

**Product Information**May be harmful if swallowed. Toxic if inhaled. Causes severe skin burns and eye damage.

May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. May cause cancer. May cause genetic defects. May damage fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure.

**Inhalation** Toxic by inhalation. May cause sensitization by inhalation.

**Eye contact** Corrosive to the eyes and may cause severe damage including blindness.

**Skin Contact**Corrosive. Contact causes severe skin irritation and possible burns. The product causes

burns of eyes, skin and mucous membranes. May cause an allergic skin reaction.

**Ingestion** Harmful if swallowed. Ingestion causes burns of the upper digestive and respiratory tracts.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Manganese Chloride 7773-01-5	= 250 mg/kg ( Rat )	-	-
Sodium dichromate 10588-01-9	= 46 mg/kg (Rat)	= 960 mg/kg (Rabbit)	= 200 mg/m <sup>3</sup> (Rat) 4 h

#### Information on toxicological effects

**Symptoms** Acute Toxicity - Oral- Cat. 4: Harmful if swallowed.

Acute Toxicity-Inhalation Cat 3. Toxic if inhaled.

based on the acute toxicity estimate for the mixture components.

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Skin corrosion/irritation** Skin Corrosion Cat 1. (based on mixture components). Causes severe burns.

**Serious eye damage/eye irritation**Eye Damage Cat 1. (based on mixture components). Risk of serious damage to eyes. **Sensitization**Eye Damage Cat 1. (based on mixture components). Risk of serious damage to eyes.

Respiratory Sensitizer Cat. 1. May cause allergy or asthma symptoms or breathing

difficulties if inhaled. Skin Sensitizer Cat 1. May cause an allergic skin reaction.

**Germ cell mutagenicity** Mutagenic. Contains a known or suspected mutagen.

**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Sodium dichromate	A1	Group 1	Known	X
10588-01-9		·		

ACGIH (American Conference of Governmental Industrial Hygienists)

A1 - Known Human Carcinogen

IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans NTP (National Toxicology Program)

Known - Known Carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

Reproductive toxicity Product is or contains a chemical which is a known or suspected reproductive hazard.

**STOT - single exposure** Not classified. (Based on mixture components).

STOT - repeated exposure STOT RE 1. Causes damage to lungs and blood system through prolonged or repeated

exposure by inhalation.

**Aspiration hazard** Not classified. (Based on mixture components).

## Numerical measures of toxicity - Product Information

# The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral) 1060.9 mg/kg
ATEmix (dermal) 16417.9 mg/kg
ATEmix (inhalation-gas) > 20,000 mg/l
ATEmix (inhalation-dust/mist) 0.7478 mg/l
ATEmix (inhalation-vapor) > 20 mg/l

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# 12. ECOLOGICAL INFORMATION

This product contains a chemical which is listed as a severe marine pollutant according to DOT.

## **Ecotoxicity**

Very toxic to aquatic life with long lasting effects

# Persistence and degradability

No information available.

## **Bioaccumulation**

No information available.

Other adverse effects No information available

# 13. DISPOSAL CONSIDERATIONS

Waste treatment methods

**Disposal of wastes**Disposal should be in accordance with applicable regional, national and local laws and

regulations.

Contaminated packaging Do not reuse container.

Chemical Name	California Hazardous Waste Status
Manganese Chloride	Toxic
7773-01-5	
Sodium dichromate	Toxic
10588-01-9	Corrosive
	Ignitable

# 14. TRANSPORT INFORMATION

**DOT** Not regulated (If shipped in NON BULK packaging by ground transport) Exempt under DOT

49 CFR 173.154 (d). This material is corrosive to aluminum only.

Marine pollutant This product contains a chemical which is listed as a severe marine pollutant according to

DOT.

ICAO (air)

**UN/ID** no. 3265

Proper shipping name CORROSIVE LIQUID, ACIDIC, ORGANIC N.O.S. (UREA HYDROCHLORIDE)

Hazard Class 8
Packing Group III

IATA

UN/ID no. 3265

Proper shipping name CORROSIVE LIQUID, ACIDIC, ORGANIC N.O.S. (UREA HYDROCHLORIDE)

Hazard Class 8
Packing Group III

**IMDG** 

UN/ID no. 3265

Proper shipping name CORROSIVE LIQUID, ACIDIC, ORGANIC N.O.S. (UREA HYDROCHLORIDE)

Hazard Class 8
Packing Group

Marine pollutant This product contains a chemical which is listed as a marine pollutant according to

IMDG/IMO

## 15. REGULATORY INFORMATION

## **International Inventories**

TSCA Complies
DSL/NDSL Complies
EINECS/ELINCS Complies

**ENCS** Does not comply

IECSCCompliesKECLCompliesPICCSCompliesAICSComplies

## Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

## **US Federal Regulations**

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	SARA 313 - Threshold Values %
Manganese Chloride - 7773-01-5	1.0
Sodium dichromate - 10588-01-9	0.1

## SARA 311/312 Hazard Categories

See section 2 for more information

## **CWA (Clean Water Act)**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Sodium dichromate 10588-01-9	10 lb	X	-	Х

#### **CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Sodium dichromate	10 lb	=	RQ 10 lb final RQ
10588-01-9			RQ 4.54 kg final RQ

## **US State Regulations**

## **California Proposition 65**

This product contains the following Proposition 65 chemicals

Chemical Name	California Proposition 65
Hexavalent chromium - 18540-29-9	Carcinogen
	Developmental
	Female Reproductive
	Male Reproductive

## **U.S. State Right-to-Know Regulations**

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Water	-	-	X

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7732-18-5			
Manganese Chloride 7773-01-5	X	-	X
Sodium dichromate 10588-01-9	X	X	X

# 16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

NFPA Health hazards 3 Flammability 1 Reactivity 0 Physical and Chemical

Properties -

Health hazards 3 Flammability 1 Physical hazards 0 Personal protection X

Prepared By Solomon Colors - Lab Technical Services

 Issue Date
 25-Oct-2018

 Revision Date
 09-Dec-2020

Revision Note Periodic Review

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**