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SAFETY DATA SHEET

Issue Date: 06/05/2015

Section 1. Chemical product and company identification

Product name:	Single Stage Reflective Chrome Powder 11504
Product chemistry:	Urethane
Material uses	Electrostatic coating for use in industrial plants.
Manufactured For:	The Eastwood Company 263 Shoemaker Road Pottstown, PA 19464 800.345.1178
In case of Emergency (Health or Spills):	1-800-424-9300

Section 2. Hazardous ingredients

CHARACTERISTIC CHEMISTRY: Chemical Mixture

SUBSTANCE	CAS N°	%p/p	ACGIH TLV TWA	GLOBALLY HARMONIZED SYSTEM
Isocyanurate	105-60-2	10-15	5 mg/m³	**Warning:** Harmful if inhaled or swallowed. Causes eye irritation. May cause allergic skin reaction. May cause respiratory tract and skin irritation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Section 3. Hazards identification

Emergency overview

Physical state:	Solid. [Powder.]
Odor:	Odorless.
Signal word:	WARNING!
Hazard statements	HARMFUL IF INHALED OR SWALLOWED. CAUSES EYE IRRITATION. MAY CAUSE ALLERGIC SKIN REACTION. MAY CAUSE RESPIRATORY TRACT AND SKIN IRRITATION.
Precautionary measures :	Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Do not breathe dust. Do not ingest. Use only with adequate ventilation. Do not eat, drink or smoke when using this product. Avoid contact with eyes, skin and clothing. Keep container tightly closed. Use personal protective equipment as required. Wash thoroughly after handling.
OSHA/HCS status:	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Potential acute health effects

Inhalation	Toxic by inhalation. Slightly irritating to the respiratory system. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
Ingestion	Toxic if swallowed.
Skin	Slightly irritating to the skin. May cause sensitization by skin contact.
Eyes	Severely irritating to eyes. Risk of serious damage to eyes.

Potential chronic health effects

Chronic effects	Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	No known significant effects or critical hazards.
Mutagenicity	No known significant effects or critical hazards.
Teratogenicity	No known significant effects or critical hazards.
Developmental effects	No known significant effects or critical hazards.
Fertility effects	No known significant effects or critical hazards.
Target organs	Contains material which causes damage to the following organs: lymphatic system. Contains material which may cause damage to the following organs: lungs, the nervous system, upper respiratory tract, skin, eyes.

Over-exposure signs/symptoms

Inhalation	Adverse symptoms may include the following: respiratory tract irritation coughing
Ingestion	May be harmful if ingested
Skin	Adverse symptoms may include the following: Irritation, redness
Eyes	Adverse symptoms may include the following: pain or irritation watering redness
Medical conditions aggravated by overexposure	Pre-existing skin disorders and disorders involving any other target organs mentioned in this SDS as being at risk may be aggravated by over-exposure to this product.

See toxicological information (Section 11)

Section 4. First aid measures

After contact with eyes:	Check for and remove any contact lenses. Immediately flush eyes with plenty of clean water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.
After skin contact:	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.
After inhalation of material:	Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.
After ingestion:	Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.
Protection of first-aiders:	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.
Notes to physician:	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Section 5.-Fire fighting measures

Flammability of the product	Fine dust clouds may form explosive mixtures with air.

Extinguishing media

Suitable	Use dry chemical, CO_2, water spray (fog) or foam.
Not suitable	Do not use water jet.
Special exposure hazards	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Hazardous thermal decomposition products	Decomposition products may include the following materials: carbon dioxide, carbon monoxide, nitrogen oxides, sulfur oxides, metal oxide/oxides
Special protective equipment for fire-fighters	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

NFPA: Ratings Hazard

Section 6.-Measures accidental release

Personal precautions:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe dust. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).
Precautions for environmental protection:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods for cleaning / collecting:	Pick up with vacuum equipment.

Section 7.-Handling and storage

Handling:	Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not breathe dust. Do not ingest. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Prevent dust accumulation. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. Empty containers retain product residue and can be hazardous. Do not reuse container.
Storage:	Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not

store in unlabeled containers.
Use appropriate containment to avoid environmental contamination.

Section 8.-Exposure limits and personal protective equipment

INGREDIENT	EXPOSURE LIMITS
Isocyanurate	OSHA PEL: Dust: 1 mg/m3; STEL 3 mg/m3; Vapor: 5 ppm; STEL 10 ppm ACGIH TLV: TWA (aerosol and vapor) 5 mg/m3; Not Suspected as a Human Carcinogen DFG MAK: 5 mg/m3 NIOSH REL: (Caprolactam, dust) TWA 1 mg/m3; STEL 3 mg/m3; (Caprolactam, vapor) TWA 0.22 ppm; STEL 0.66 ppm

Recommended monitoring procedures
If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards.
Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

Engineering measures
Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Hygiene measures
Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.
Appropriate techniques should be used to remove potentially contaminated clothing.
Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protection

Respiratory protection:
Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Protection of hands:
Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Eye protection:
Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles. If operating conditions cause high dust concentrations to be produced, use dust goggles.

Skin protection:
Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Environmental exposure controls
Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Section 9 -. Physical and chemical properties

Physical state:	Solid. (powder)	Flash point:	N/A
		Vapor Pressure (20 ° C):	Closed cup: Not applicable.
Auto-ignition temperature:	450 to 600°C (842 to 1112°F)	Flammable limits:	20 - 70 g/m3
Odor:	Odorless	Relative density:	1.2 to 1.9 [ISO 8130-2/-3]N/A
Solubility:	Insoluble in the following materials: cold water and hot water.	Minimum ignition energy (mJ):	5 to 20

Section 10. Stability and reactivity

Chemical Stability:
The product is stable.

Conditions to avoid:
Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Prevent dust accumulation.

Incompatible materials:
Reactive or incompatible with the following materials: oxidizing materials

Hazardous decomposition products:
Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Possibility of hazardous reactions
Under normal conditions of storage and use, hazardous reactions will not occur.

Section 11. Toxicological information

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Isocyanurate	DL50 Oral	Rat	1660 mg/kg	--

Chronic toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Isocyanurate	C L50 Inhalation	Rat	8.2 mg/l	4 h

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure
Isocyanurate	DL50 skin	Rat	> 2000 gm/kg	--

Sensitizer

Product/ingredient name	Route of exposure	Species	Result
Isocyanurate	cutaneous	Rabbit, Buehler	Ambiguous

Carcinogenicity

Product/ingredient name	Result	Species	Dose	Exposure
Isocyanurate	Negative	Rat – Male	----	2 years

Mutagenicity

Product/ingredient name	Test	Experiment	Result
Isocyanurate	Negative	In vitro	Negative

Teratogenicity

Conclusion/Summary: Not available.

Reproductive toxicity

Product/ingredient name	Maternal toxicity	Fertility	Development toxin	Species	Dose	Exposure
Isocyanurate	-----	Rata	Negative	Rat – Male	Oral	500 mg/kg days; 7 days per week

Section 12. Ecological information

Ecotoxicity: No known significant effects or critical hazards.

Aquatic ecotoxicity

Product/ingredient name	Result	Species	Exposure
Isocyanurate	---	Algae Micro-organism Daphnia	14 days 21 days

Section 13. Disposal considerations

Waste disposal: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with

jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations.
Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

Section 14. Transport information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
DOT Classification	Not regulated	Not regulated	Not regulated	----		----
TDG Classification	Not regulated	Not regulated	Not regulated	----		----
Mexico Classification	Not regulated	Not regulated	Not regulated	----		----
ADR/RID Class	Not regulated	Not regulated	Not regulated	----		----
IMDG Class	Not regulated	Not regulated	Not regulated	----		----
IATA-DGR Class	Not regulated	Not regulated	Not regulated	----		----

PG*: Packing group

Section 15. Regulatory information

HCS Classification: Toxic material, Irritating material, Sensitizing material, Carcinogen, Target organ effects.

U.S. Federal regulations: **TSCA 8(a) CDR Exempt/Partial exemption:** Not determined
United States inventory (TSCA 8b): All components are listed or exempted.

Clean Air Act Section 112 (b): Hazardous Air Pollutants (HAPs): Not listed

Clean Air Act Section 602: Class I Substances: Not listed

Clean Air Act Section 602: Class II Substances: Not listed

DEA List I Chemicals: (Precursor Chemicals): Not listed

DEA List II Chemicals: (Essential Chemicals): Not listed

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ: **Not applicable.**

SARA 311/312

Classification: Immediate (acute) health hazard
Delayed (chronic) health hazard

Composition/information on ingredients

Name	%	Fire Hazard	Sudden release of Pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
Isocyanurate	25-30	No	No	No	Yes	Yes

SARA 313

	Product Name	CAS Number	%
Form R - Reporting requirements	No SARA (Superfund Amendments & Reauthorization AC) 313 chemicals are present		

SARA 313 notifications must not be detached from the MSDS and any copying and redistribution of the MSDS shall include copying and redistribution of the notice attached to copies of the MSDS subsequently redistributed.

State regulations

Massachusetts	None of the components are listed.
New York	None of the components are listed.
New Jersey	The following components are listed:
Pennsylvania	The following components are listed:
Canada inventory	Not determined
International regulations	
International lists	**Australia inventory (AICS)**: Not determined. **China inventory (IECSC):** Not determined. **Japan inventory:** Not determined. **Korea inventory:** Not determined. **Malaysia Inventory (EHS Register):** Not determined. **New Zealand Inventory of Chemicals (NZIoC):** Not determined. **Philippines inventory (PICCS):** Not determined. **Taiwan inventory (CSNN):** Not determined.
Chemical Weapons: Convention List Schedule I Chemicals	Not listed
Chemical Weapons: Convention List Schedule II Chemicals	Not listed
Chemical Weapons: Convention List Schedule III Chemicals	Not listed

Section 16. Other information

Label requirements	HARMFUL IF INHALED OR SWALLOWED. CAUSES EYE IRRITATION. MAY CAUSE ALLERGIC SKIN REACTION. MAY CAUSE RESPIRATORY TRACT AND SKIN IRRITATION.

Version : 2

Indicates information that has changed from previously issued version. Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. 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 that exist.