

**MATERIAL SAFETY DATA SHEET**  
MAY BE USED TO COMPLY WITH OSHA'S  
HAZARD COMMUNICATION STANDARD  
29CFR 1910.1200

**CLOVER TECHNOLOGIES**  
4200 COLUMBUS STREET  
OTTAWA, ILLINOIS 61350



EMERGENCY TELEPHONE NUMBER 1-919-770-7984 or 1-919-770-6019

INFORMATION TELEPHONE NUMBER 1-919-774-3808

DATE PREPARED: 11/1/13

SIGNATURE OF PREPARER (OPTIONAL)

**SECTION 1 CHEMICAL PRODUCT / NAME**

**Product/Chemical Name:** TRHP 1505 OS2

**Product No:** ELI75635

**CAS Number:** Mixture

**Other Designations:** N/A

**General Use:** Laser Printer

**SECTION 2 COMPOSITION / INFORMATION ON INGREDIENTS**

Ingredient Name:	CAS NUMBER	EU NUMBER	%	OSHA PEL	ACGIH TLV	OTHER LIMITS
Toner is regulated under OSHA as particulate not otherwise regulated:						
Styrene-Acrylate Copolymer	Registered		40-55			
Magnetite	Registered		40-50			
Ethylene Propylene Copolymer	Registered		<3			
Ester Wax	Registered		<3			
Silica	Registered		<3			
Metal Complex Dye	Registered		<1			

**SECTION 3 HAZARDOUS IDENTIFICATION**

**Classification:** This product is not classified as hazardous according to OSHA CFR 1910.1200 or EU Directive 1999/45/EC, as amended.

**Target Organs:** Prolonged breathing of high concentrations may cause adverse effects on the respiratory system.

**Routes of Exposure:** Inhalation, dermal contact, incidental ingestion

**Eye contact:** Might cause slight irritation

**Inhalation:** Excessive inhalation may cause irritation of the nose, throat and respiratory tract.

**Ingestion:** None currently known.

**Dermal contact:** Not an irritant, not a sensitizer.

**Medical Conditions Aggravated By Long-Term Exposure to this |**

Respiratory disorders, such as asthma, maybe aggravated by prolonged exposure to high concentrations of this product.

**Chronic Effects:** Prolonged inhalation of excessive amounts of any dust may cause lung damage.

**Signs and symptoms of exposure:** Prolonged exposure to dusts of this product may irritate the respiratory system.

**Physical Hazard:** Not classified as flammable or combustible. It will burn in case of fire. Avoid contact with strong oxidizer.

NFPA/HMIS	
HEALTH	1
FLAMMABIL	1
REACTIVITY	1
PPE (Sec.8)	-

**SECTION 4 FIRST AID MEASURES**

**Inhalation:** Remove to fresh air. Treat any irritation symptomatically. Call a physician if condition persists.

**Eye Contact:** In case of contact immediately flush with plenty of low pressure water for at least 15 minutes. Remove any contact lenses to ensure thorough flushing.

**Skin Contact:** Wash well with soap and running water.

**Ingestion:** N/A

*After first aid, get appropriate in-plant paramedic or community medical support if serious signs and symptoms persist.*

**Note to Physicians:** N/A

**Special Precautions / Procedures:** N/A

## SECTION 5 FIRE FIGHTING MEASURES

**Flash Point:** N/A

**Flash Point Method:** N/A

**Burning Rate:** N/A

**Auto Ignition Temperature:** Not Determined

**LEL:** N/A

**UEL:** N/A

**Flammability Classification:** 1 Slight (HMIS, NFPA)

**Extinguishing Media:** Water spray, dry chemical, foam, carbon dioxide, or halon type extinguishers.

**Unusual Fire or Explosion Hazards:** May form flammable dust-air mixture.

**Hazardous Combustion Products:** Carbon monoxide, carbon dioxide, nitrogen oxide and smoke.  
Under certain conditions some aliphatic aldehydes and carboxylic acids may form.

**Fire-Fighting Instructions:** Do not release runoff from fire controls methods to sewers or waterways.

**Fire-Fighting Equipment:** Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with full facepiece operated in pressure-demand or positive-pressure mode.

## SECTION 6 ACCIDENTAL RELEASE MEASURES

**Spill / Leak Procedures:** N/A

**Small Spills:** Scoop into a container for disposal, suction up remaining material with a high efficiency vacuum cleaner.

**Large Spills:** Scoop into a container for disposal, suction up remaining material with a high efficiency vacuum cleaner.

**Containment:** For large spills, avoid suspending particles, collect for later disposal. Do not release into sewers or waterways.

**Cleanup:** No special requirements.

**Regulatory Requirement:** N/A

## SECTION 7 HANDLING AND STORAGE

**Handling Precautions:** Keep containers closed at all times. Avoid creating dust. Keep away from ignition sources.

**Storage Requirements:** Store in a cool, dry location.

**Regulatory Requirement:** N/A

## SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

### Engineering Controls:

**Ventilation:** Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs (sec.2). Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source.

### Administrative Controls:

**Respiratory Protection:** Seek professional advise prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear a MSHA/NIOSH-approved respirator. Select respirator based on its suitability to provide adequate worker protection for given working conditions, level of airborne contamination, and presence of sufficient oxygen. For emergency or nonroutine operation (cleaning spills, reactor vessels, or storage tanks), wear an SCBA. *Warning! Air-purified respirators do not protect workers in oxygen-deficient atmospheres.*

**Protective Clothing/Equipment:** Wear chemically protective gloves, boots, aprons, and gauntlets to prevent prolonged or repeated skin contact. Wear protective eyeglasses or chemical safety goggles, per OSHA eye and face protection regulations (29CFR 1910.133). Contact lenses are not eye protective devices. Appropriate protection must be worn instead of, or in conjunction with contact lenses.

**Safety Stations:** Make emergency eyewash stations and washing facilities available in work area.

**Contaminated Equipment:** Separate contaminated work clothing from street clothes. Launder before re-use. Remove this material from your shoes and clean personal protective equipment.

**Comments:** Never eat, drink, or smoke in works areas. Practice good personal hygiene after using this material, especially before eating, drinking, using the toilet, or applying cosmetics.

**SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

<b>Physical State:</b>		<b>Water Solubility:</b>	Negligible
<b>Appearance and Odor:</b>	Black, free flowing powder, slight odor	<b>Other Solubilities:</b>	Partial soluble in Toloene & Xylene
<b>Odor Threshold:</b>	N/A	<b>Boiling Point:</b>	N/A
<b>Vapor Pressure:</b>	N/A	<b>Softening point:</b>	~100 C (Softening Point)
<b>Vapor Density (Air=1):</b>	Heavier than air.	<b>Viscosity:</b>	N/A
<b>Formula Weight:</b>	N/A	<b>Refractive Index:</b>	N/A
<b>Density:</b>	N/A	<b>Surface Tension:</b>	N/A
<b>Specific Gravity:</b>	(H <sub>2</sub> O)=1, at 4°C): 1.3-1.8	<b>% Volatile:</b>	N/A
<b>pH:</b>	N/A	<b>Evaporation Rate:</b>	N/A

**SECTION 10 STABILITY AND REACTIVITY**

<b>Stability:</b>	Stable
<b>Polymerization:</b>	N/A
<b>Chemical Incompatibilities:</b>	N/A
<b>Conditions to Avoid:</b>	None
<b>Hazardous Decomposition Products:</b>	CO and CO2 and other decomposition products when burned

**SECTION 11 TOXICOLOGICAL INFORMATION**

<b>Eye Effects:</b>	N/A	<b>Toxicity Data:*</b>	
<b>Skin Effects:</b>	N/A	<b>Acute Inhalation Effects:</b>	N/A
		<b>Acute Oral Effects:</b>	N/A
		<b>Chronic Effects:</b>	N/A
		<b>Carcinogenicity:</b>	N/A
		<b>Mutagenicity:</b> Ames Test	(Estimated from the results of testing the constituent components)
		Negative	
		<b>Teratogenicity:</b>	N/A

\*See NIOSH, RTECS for additional toxicity data.

**SECTION 12 ECOLOGICAL INFORMATION**

<b>Ecotoxicity:</b>	N/A
<b>Environmental Fate:</b>	N/A
<b>Environmental Degradation:</b>	N/A
<b>Soil Absorption / Mobility:</b>	N/A

**SECTION 13 DISPOSAL CONSIDERATIONS**

<b>Disposal:</b>	Waste material may be incinerated / or recycled for its Iron Oxide under conditions which meet all federal, state, and local environmental regulations.
<b>Disposal Regulatory Requirements:</b>	N/A
<b>Container Cleaning and Disposal:</b>	N/A

**SECTION 14 TRANSPORT INFORMATION**

DOT Transportation Data (49 CFR 172.101): Not specifically listed.

<b>Shipping Name:</b>	N/A	<b>Packaging Authorizations</b>		<b>Quantity Limitations</b>
<b>Shipping Symbol:</b>	N/A	a) Exceptions:	N/A	a) Passenger, Aircraft, or
<b>Hazard Class:</b>	N/A	b) Non-bulk Packaging:	N/A	Railcar: N/A
<b>ID No:</b>	N/A	c) Bulk Packaging:	N/A	
<b>Packing Group:</b>	N/A			<b>Vessel Stowage Requirements</b>
<b>Label:</b>	N/A			a) Vessel Stowage: N/A
<b>Special Provisions:</b>	N/A			b) Other: N/A

**SECTION 15 REGULATORY INFORMATION**

**US Federal Regulations:**

US EPA TSCA Inventory: All Chemical substance in this product comply with all rules or orders under TSCA.

**CERCLA (Superfund) reportable quantity:-** None

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

<b>Hazard Categories</b>	Immediate Hazard-	No
	Delayed Hazard-	No
	Fire Hazard-	No
	Pressure Hazard-	No
	Reactivity hazard_	No
<b>Section 302 Extremely Hazardous substance</b>		No
<b>Section 311 Hazardous Chemicals</b>		No

**State Regulations:** Check your states regulations that may specifically list copy machine toner.

**SECTION 16 OTHER INFORMATION**

Prepared By: N/A

Revision Notes: N/A

Additional Hazard Rating System: N/A

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