

SAFETY DATA SHEET

OSHA HCS (29 CFR 1910.1200)

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Chemical Name

Mixture

Product Name / Trade Name

RT-Pigment 16 Black

CAS No.

Mixture

Relevant identified uses of the substance or mixture and uses advised against

Identified Use(s)

Industrial Flooring Coloring Agent, Pigments

Uses Advised Against

None

Details of the supplier of the safety data sheet

Company Identification

Res-Tek, Inc.

110 Riverside Drive

Cartersville, Georgia 30120

United States of America

Telephone

1-888-737-8351 / 1-770-427-4034

Emergency telephone number

CHEMTREC 24 hr. 1-800-424-9300 / 1 (703) 527-3887 (Collect calls accepted)

SECTION 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture

OSHA HCS (29 CFR 1910.1200)

None.

Label elements

Hazard Symbol(s)

None.

Signal Word(s)

None.

Hazard Statement(s)

None.

Precautionary Statement(s)

Obtain special instructions before use.

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

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

In case of inadequate ventilation wear respiratory protection.

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product.

If SWALLOWED: Call POISON CENTER or doctor/physician if you feel unwell.

Rinse mouth

Avoid breathing dust

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

None identified.

Other hazards

Additional Information

None.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Composition/information on ingredients	%W/W	CAS No.	Hazard Statement(s)
Triiron Tetraoxide (Pigment Black 11)	100	1317-61-9	None.

For full text of H phrases see section 16.

Additional Information - None

SECTION 4: FIRST AID MEASURES



Description of first aid measures

Inhalation	Remove person to fresh air and keep comfortable for breathing. Keep patient at rest and give oxygen if breathing difficult. If symptoms continue, get medical attention. Get medical advice/attention if you feel unwell.
Skin Contact	Remove contaminated clothing. Brush off loose particles from skin. Wash skin with soap and water. Wash contaminated clothing before reuse.
Eye Contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation develops and persists, get medical attention.
Ingestion	Not normally required. Do not induce vomiting. Do not give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.
Most important symptoms and effects, both acute and delayed	None known
Indication of any immediate medical attention and special treatment needed	None known

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media

-Suitable Extinguishing Media	Use carbon dioxide, dry chemical, foam, water spray, or water fog. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
-Unsuitable Extinguishing Media	None anticipated.

Special hazards arising from the substance or mixture

No unusual fire or explosion hazards noted.

Advice for fire-fighters

Fire fighters should wear complete protective clothing including self-contained breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation, especially in confined areas. Avoid creating dust. Use personal protective equipment as required.

Environmental precautions

Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system.

Methods and material for containment and cleaning up

Use personal protective equipment as required. Avoid creating dust. Sweep up and shovel into suitable containers for disposal. Transfer to a container for disposal or recovery. Wash the spillage area with water. Do not allow to enter drains, sewers or watercourses.

Reference to other sections

None

Additional Information

None.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Observe good industrial hygiene practices. Provide adequate ventilation. Wear appropriate personal protective equipment. Do not eat, drink or smoke when using this product. Avoid contact with eyes and prolonged or repeated contact with skin. Avoid generation of dust. Avoid breathing dust. Keep containers closed when not in use. Wash thoroughly after handling.

Conditions for safe storage, including any incompatibilities

-Storage temperature

Keep container closed in a dry and well-ventilated place. Keep out of the reach of children.

-Incompatible materials

Strong acids.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Occupational Exposure Limits

SUBSTANCE.	CAS No.	(8hr TWA)		(STEL)		Note:
		PEL (OSHA)	TLV (ACGIH)	PEL (OSHA)	TLV (ACGIH)	
Triiron Tetraoxide (Pigment Black 11)	1317-61-9	5 mg/m3 (respirable)	5 mg/m3 (respirable)	-----	-----	-----
		10 mg/m3 (total dust)	10 mg/m3 (Inhalable)			

8hr TWA: 8 hour time-weighted average; PEL: Permissible Exposure Limit; TLV: Threshold Limit Value; STEL = Short Term Exposure Limit

Exposure controls

Appropriate engineering controls

Control dust formation. Use adequate general or local exhaust ventilation to maintain concentrations in the workplace below the applicable exposure limits.

Personal protection equipment

Eye/face protection

Safety Glasses, tight fitting goggles.



Skin protection (Hand protection/ Other)

Protective gloves and protective clothing



Respiratory protection



Inhalable size dust particles may be released under certain conditions of handling. Respiratory protection may be needed if occupational exposure limits are exceeded. Air-purifying respirator with particulate filter may be sufficient. Check with protective equipment manufacturer's data. Positive-pressure supplied air respirators may be required for high

airborne contaminated concentrations.

Thermal hazards

Not normally required.

Environmental Exposure Controls

Not normally required.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Solid. Fine Powder.
Color.	Blue Gray.
Odor	Odorless.
Odor Threshold (ppm)	Not available.
pH (Value)	4 – 8.
Melting Point (°C) / Freezing Point (°C)	>1000°C (1832°F).
Boiling point/boiling range (°C):	Not available.
Flash Point (°C)	Not available.
Evaporation Rate	Not applicable.
Flammability (solid, gas)	Not flammable.
Explosive Limit Ranges	Not explosive.
Vapor pressure (Pascal)	Not available.
Vapor Density (Air=1)	Not applicable.
Density (g/ml)	4 - 5
Specific Gravity	4 - 5
Solubility (Water)	Insoluble.
Solubility (Other)	Not available.
Partition Coefficient (n-Octanol/water)	Not applicable.
Auto Ignition Point (°C)	Not available.
Decomposition Temperature (°C)	>1000°C
Kinematic Viscosity (cSt) @ 40°C	Not applicable.
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.

Other information

VOC (%)	0
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SECTION 10: STABILITY AND REACTIVITY

Reactivity	Stable under normal conditions.
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	None known.
Incompatible materials	Strong acids and bases.
Hazardous decomposition product(s)	None under normal conditions.

SECTION 11: TOXICOLOGICAL INFORMATION

Exposure routes: Ingestion, Skin contact, Inhalation, Eye contact.

Product

Oral	LD50 (rat, oral): >5000 mg/kg.
Dermal	Not classified for acute toxicity based on available data.
Inhalation	Not classified for acute toxicity based on available data.
Skin Corrosion/Irritation	Not classified for acute toxicity based on available data.
Serious Eye Damage/Eye Irritation	Not classified for acute toxicity based on available data.
Respiratory Sensitization	Not classified for acute toxicity based on available data.

Aspiration Hazard:

Not applicable.

CMR Effects

Germ Cell Mutagenicity

Based on available data, the classification criteria are not met.

Carcinogenicity

Based on available data, the classification criteria are not met.

Reproductive Toxicity

Based on available data, the classification criteria are not met.

STOT – Single Exposure

Based on available data, the classification criteria are not met.

STOT – Repeated Exposure

Based on available data, the classification criteria are not met.

Aspiration Hazard

Based on available data, the classification criteria are not met.

SECTION 12: ECOLOGICAL INFORMATION

Product

Ecotoxicity

Fish

LC50 (96 h): >50000 mg/l

Aquatic Invertebrates

Based on available data, the classification criteria are not met.

Toxicity to Aquatic Plants

Based on available data, the classification criteria are not met.

Toxicity to soil dwelling organisms

Based on available data, the classification criteria are not met.

Sediment Toxicity

Based on available data, the classification criteria are not met.

Toxicity to Terrestrial Plants

Based on available data, the classification criteria are not met.

Toxicity to Above-Ground Organisms

Based on available data, the classification criteria are not met.

Toxicity to microorganisms

Based on available data, the classification criteria are not met.

Persistence and degradability

Not applicable (inorganic substance).

Bioaccumulative potential

Not applicable.

Bio-concentration Factor (BCF)

Not applicable.

Partition Coefficient n-octanol / water

Not applicable.

Mobility in soil

Not applicable.

PBT and vPBT assessment

This substance does not meet the criteria to be identified as PBT or vPBT.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal should be in accordance with local, state or national legislation. Consult an accredited waste disposal contractor or the local authority for advice.

Additional Information

None known.

SECTION 14: TRANSPORT INFORMATION

Land transport
(U.S. DOT)

Sea transport
(IMDG)

Air transport
(ICAO/IATA)

UN number

Proper Shipping Name

Not classified as dangerous for transport.

Transport hazard class(es)

Packing group

Environmental hazards

Special precautions for user

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable

SECTION 15: REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture:

TSCA (Toxic Substance Control Act) - Inventory Status: All components listed.

Designated Hazardous Substances and Reportable Quantities (40 CFR 302.4):

Chemical Name	CAS No.	Typical %wt.	RQ (Pounds)
None	-----	-----	-----

SARA 311/312 - Hazard Categories: None

☐ Fire ☐ Sudden Release ☐ Reactivity ☐ Immediate (acute) ☐ Chronic (delayed)

SARA 313 - Toxic Chemicals (40 CFR 372):

Chemical Name	CAS No.	Typical %wt.
None	-----	-----

SARA 302 - Extremely Hazardous Substances(40 CFR 355):

Chemical Name	CAS No.	Typical %wt.	TPQ (pounds)
None	-----	-----	-----

Proposition 65 (California):

Chemical Name	CAS No.	Typical %wt.	Hazards
None	-----	-----	-----

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1 - 16.

Date of preparation: March 22, 2019

Hazard Statement(s) Listed in: SECTION 3

None.

Additional Information: None.

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