Clarke Colors LLC

SAFETY DATA SHEET

Revision Date: 10/22/2021

SECTION 1. IDENTIFICATION

Product Name

: Black Oxide BK555

Material Number

: 2412745

Manufacturer or Supplier's details

Company

: Clarke Colors LLC

331 Somerset Lane, STE 77

Marietta GA 30067

USA

For information; USA/Canada/International

404-964-0003

Emergency telephone

Chemtel (800) 255-3924 or

International (813) 248-0585

Recommended use

: Industrial Use

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200).

II Not a hazardous substance or mixture

GHS Label Elements

II Not a hazardous substance or mixture

Other Hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture

Substance

Chemical nature

Inorganic Pigment

Hazardous components

Chemical NameCAS-No.ConcentrationFe-Mn Spinel Black68186-94-7>= 93 - <=100</td>

SECTION 4. FIRST AID MEASURES

Description of first aid measures

Eye contact : Immediately flush eyes with plenty of water, occasionally lifting the upper

and lower eyelids. Check for a remove contact lenses. Get medical attention

if irritation occurs.

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

breathing. Get medical attention if symptoms continue.

Skin Contact : Flush contaminated skin with plenty of water. Remove contaminated clothing

and shoes.

Ingestion : Wash out mouth with water. Remove victim to fresh air and keep in a position

comfortable for breathing. Get medical attention if symptoms occur.

Potential acute health effects

Eye contact : May cause mechanical irritation (abrasion)

Inhalation : No known significant effects or critical hazards

Skin Contact : May cause mechanical irritation (abrasion)

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media : Use an extinguishing agent suitable for the surrounding fire. In case of fire

use water, foam, dry chemical, Co2 or sand can also be used.

Unsuitable extinguishing media : Do not use a solid water stream as it may scatter and spread fire

Specific hazards during fire fighting: Do not allow run-off from fire fighting to enter drains or water streams

Hazardous thermal decomposition

products

: The product itself does not burn

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.

Further information : Standard procedure for chemical fires. Promptly isolate the scene by

by removing all persons from the vicinity if there is a fire.

Fire residues and contaminated fire extinguishing water must be disposed of

in accordance with local regulations and guidelines.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective equipment and Emergency procedures : Avoid dust formation. Ensure adequate ventilation. Use personal protective equipment, See also Section 8. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Avoid breathing dust. Put on appropriate personal protective equipment.

Environmental precautions

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has not been contained.

Methods and materials for containment and cleaning up

: If the spilled material contains dust, approach from upwind and use vacuum with HEPA filtration filters

Dry sweeping is not recommended. Wet sand can be used and product disposed of in a sealed container.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling

Protective measures

: Avoid breathing dust. Remove contaminated clothing and protective equipment before entering eating areas. Workers should wash hands before eating or drinking. Eating, drinking and smoking should be prohibited in areas where this material is handled and stored and processed.

Conditions for safe storage

: Keep in a dry, cool and well ventilated place.

SECTION 8. Exposure controls/personal protection

Appropriate engineering controls

: Use only with adequate ventilation. Apply technical measures to comply with occupational exposure limits.

Personal protection Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products and before eating. Appropriate techniques should be used to remove potentially contaminated clothing. Ensure that eyewash stations are close to the workstation location.

Respiratory protection

: Although no exposure limit has been established for this product, the OSHA PEL for Particulates NOT Otherwise Regulated (PNOR) of 5 mg/m3 – total dust, 5 mg/m3 respirable fraction is recommended. In addition, the ACGIH recommends 0.2 mg/m3 – respirable particles and 0.2 mg/m3 – inhalable particles for Particles (insoluble or poorly soluble) Not Otherwise Specified (PNOS). The following respirator is recommended if airborne concentrations

exceed the appropriate standard/guideline. Dust-protection mask if there is a risk of dust formation. NIOSH approved air-purifying

particulate respirator with N100 filters.

Skin protection

: Wear suitable protective clothing and gloves

SECTION 9. Physical and Chemical Properties

Appearance

: Powder

Physical State

: Solid

Color

: Black

Carbon content

: Trace. Effectively ZERO

Odor

: Odorless

Odor Threshold

: Not available

pН

: 4-8 Concentration: 5%

Melting point/range :>1,875 oF />1,000 oC

: No data available **Boiling point** : No data available Flash point : No data available **Evaporation rate** : No data available **Self-ignition** : No data available Upper explosion limit Upper flammability limit : No data available : Not applicable Vapor pressure : 4.2 - 5.2 g/cm3Density **Bulk density** : No data available

Water Soluble : Insoluble

Solubility in other solvents : No data available
Auto-ignition temperature : Not determined
Decomposition temperature : No data available
VOC content : Not applicable
Oxidizing properties : Not applicable

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final

VOC's (40 CFR 60.489)

SECTION 10. Stability and Reactivity

Chemical stability : The product is chemically stable

Reactivity ; No specific test data related to reactivity available for this

product or its ingredients

Possibility of hazardous reaction : No dangerous reaction known under conditions of normal use

Conditions to avoid : Incompatible materials

Incompatible materials : Incompatible with oxidizing agents and strong acids.

Hazardous decomposition products : No decomposition if stored and used as directed

SECTION 11. Toxicological information

Information on the likely : Inhalation , eye contact , skin contact, Ingestion

routes of exposure

Potential acute health effects

Eye contact: May cause mechanical irritation (abrasion)Inhalation: No known significant effects or critical hazardsSkin contact: May cause mechanical irritation (abrasion)Ingestion: No known significant effects or critical hazards

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact: No specific dataInhalation: No specific dataSkin contact: No specific dataIngestion: No specific data

Acute toxicity

Not classified based on available information

Skin corrosion/irritation

Not classified based on available information

Serious eye damage/eye irritation

Not classified based on available information

Skin sensitization

Not classified based on available information

Respiratory sensitization

Not classified based on available information

Germ cell mutagenicity

Not classified based on available information

Carcinogenicity

Not classified based on available information

IARC

No component of this product present at levels greater than or equal to 0.1 % is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA

No component of this product present at levels greater than or equal to $0.1\ \%$ is on OSHA's list

of regulated carcinogens.

NTP

No ingredient of this product present at levels greater than or equal to 0.1 % is identified as a

known or anticipated carcinogen by NTP.

Reproductive toxicity

Not classified based on available information

STOT-single exposure

Not classified based on available information

STOT-repeated exposure

Not classified based on available information

Aspiration toxicity

Not classified based on available information

SECTION 12. Ecological Information

Ecotoxicity

This product has no known ecotoxicological effects.

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects

Product

Ozone-Depletion Potential

: Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone — CAA Section 602 Class 1 Substances. Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 40 CFR 82, Subpt.A, App.A+B

SECTION 13. Disposal Considerations

Disposal methods

Waste from residues

: The generation of waste should be avoided or minimized wherever possible. This material and its container must be disposed of in a safe way. Empty containers retain product residue; observe all precautions for product.

Avoid dispersal of spilled material and runoff and contact with

soil, waterways, drains and sewers.

Waste disposal should be in accordance with existing federal,

state, provincial and/or local environmental controls.

SECTION 14. Transport Information

International Regulations

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied

National Regulations

49 CFR

Not regulated as a dangerous good

Hazard and handling Notes

Not dangerous cargo. Has a slight odor. Keep separated from foodstuffs

SECTION 15. Regulatory information

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ

SARA 304 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards

: No SARA Hazards

SARA 313

: This product contains components that are reportable under the regulation.

Manganese Compounds

US State Regulations

Massachusetts Right To Know

No components are subject to the Massachusetts right to Know Act

Pennsylvania Right To Know

This product contains components that are reportable under the regulation

California Prop. 65

This product does not contain any chemicals known to the State of California to cause cancer, birth or any other reproductive defects.

The components of this product are reported in the following inventories:

TSCA (United States) : On TSCA Inventory

DSL/NDSL (Canada) : All components of this product are on the Canadian DSL

AICS (Australia) : On the inventory or in compliance with the inventory

NzioC (New Zealand) : On the inventory or in compliance with the inventory

EINECS (European Union) : On the inventory or in compliance with the inventory

ENCS (Japan) : On the inventory or in compliance with the inventory

KECA (Korea) : On the inventory or in compliance with the inventory

PICCS (Philippines) : On the inventory or in compliance with the inventory

IECSC (China) : On the inventory or in compliance with the inventory

TCSI (Taiwan) : On the inventory or in compliance with the inventory

INSQ (Mexico) : On the inventory or in compliance with the inventory

SVVISS (Switzerland) : On the inventory or in compliance with the inventory

SECTION 16. Other Information

Hazardous Material Information System Health 1
Flammability 0
Physical Hazards 0

0=Insignificant 1= Slight 2=Moderate 3=High 4=Extreme

Further information

NFPA 704:



HMIS IV:



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