

**1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY**

Product name: ABS 455  
 Product Number: 04550  
 Product use: For laboratory research purposes  
 Restrictions on use: Not for drug or household use  
 Safety Sheet Supplier: Oakley, Inc.  
 4000 Luxottica Place  
 Mason, OH 45040  
 USA  
 Telephone: (614) 492-5610  
 Emergency Phone: (614) 674-4846  
 E-mail address: info.exciton@luxotticaretail.com

**2. HAZARDS IDENTIFICATION**

**Classification of the substance or mixture**

Acute toxicity, Oral (Category 4), H302  
 Acute toxicity, Inhalation (Category 4), H332  
 Acute toxicity, Dermal (Category 4), H312  
 Carcinogenicity (Category 1B), H350

**Label elements**

Pictogram



Signal word Danger

**Hazard statement(s)**

H302 Harmful if swallowed  
 H312 Harmful in contact with skin  
 H332 Harmful if inhaled  
 H350 May cause cancer

**Precautionary statement(s)**

P201 Obtain special instructions before use.  
 P202 Do not handle until all safety precautions have been read and understood.  
 P261 Avoid breathing dust.  
 P264 Wash skin thoroughly after handling  
 P270 Do not eat, drink or smoke when using this product.  
 P271 Use only outdoors or in a well-ventilated area  
 P280 Wear protective gloves/ protective clothing.  
 P281 Use personal protective equipment as required.  
 P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.  
 P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
 P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
 P308 + P313 IF exposed or concerned: Get medical advice/attention.  
 P312 Call a POISON CENTER or doctor/ physician if you feel unwell.  
 P330 Rinse mouth

P361	Remove/Take off immediately all contaminated clothing
P363	Wash contaminated clothing before reuse.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant

**Hazards not otherwise classified or not covered by GHS**

None

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Synonyms:	Metal complex dye
Formula:	Trade Secret
Molecular Weight:	Trade Secret
CAS-No.:	Trade Secret
EC-No.:	None

**Hazardous components:**ABS455**4. FIRST AID MEASURES****If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

**In case of skin contact**

Wash off with soap and plenty of water.

**In case of eye contact**

Flush eyes with water as a precaution.

**If swallowed**

Never give anything by mouth to an unconscious person. Rinse mouth with water.

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

No further relevant information available

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

No further relevant information available

**5. FIRE-FIGHTING MEASURES****Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Special hazards arising from the substance or mixture**

Carbon oxides, nickel/nickel oxides, nitrogen oxides (NOx)

**Special protective equipment for fire-fighters**

Wear self contained breathing apparatus for fire fighting if necessary.

**6. ACCIDENTAL RELEASE MEASURES****Personal precautions**

Avoid dust formation. Avoid breathing vapors, mist or gas.

**Environmental precautions**

Do not let product enter drains.

**Methods and materials for containment and cleaning up**

Sweep up and shovel. Keep in suitable, closed containers for disposal.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

### Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place. Store in cool place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Control Parameters

#### Components with workplace control parameters

Component	Value	Control Parameters	Basis
ABS551 (due to Nickel)	PEL; TWA (8 hour)	20 mg/m <sup>3</sup>	USA. OSHA - Table Z-1 Limits for Air Contaminants
ABS551 (due to Nickel)	REL; TWA (10 hour)	0.3 mg/m <sup>3</sup>	USA. NIOSH pocket Guide to Chemical Hazards, Appendix A
ABS551 (due to soluble Nickel)	TLV	2 mg/m <sup>3</sup>	USA. ACGIH TLVs® and BEIs® guide
ABS551 (due to soluble Nickel)	TLV	4 mg/m <sup>3</sup>	USA. ACGIH TLVs® and BEIs® guide

### Hygiene measures and engineering controls

Avoid dispersal of dust in the air (ie, clearing dusty surfaces with compressed air). Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Provide adequate ventilation and/or containment in accordance with good laboratory practices.

### Personal protective equipment

#### Respiratory protection

Where protection from nuisance levels of dusts are desired, use type P95 (US) or type P1 (EU EN 143) dust masks in combination with engineering controls. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Hand protection

Handle with impermeable gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

#### Eye / face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### Body protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

- |                   |                               |
|-------------------|-------------------------------|
| a) Appearance     | Form: dark crystalline powder |
| b) Odor           | No data available             |
| c) Odor Threshold | No data available             |
| d) pH             | No data available             |

e) Melting point	No data available
f) Initial boiling point and boiling range	No data available
g) Flash point	No data available
h) Evaporation rate	No data available
i) Flammability	No data available
j) Upper/lower flammability or explosive limits	No data available
k) Vapor pressure	No data available
l) Vapor density	No data available
m) Relative density	No data available
n) Solubility	No data available
o) Partition coefficient: n-octanol/water	No data available
p) Auto-ignition temperature	No data available
q) Decomposition temperature	No data available
r) Viscosity	No data available

## 10. STABILITY AND REACTIVITY

a) Reactivity	No data available
b) Chemical stability	Stable under recommended storage conditions
c) Possibility of hazardous reactions	No data available
d) Conditions to avoid (e.g. static discharge)	No data available
e) Incompatible materials	Strong oxidizing agents
f) Hazardous decomposition products	See Section 5.

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

no data available

### Skin corrosion/irritation

no data available

### Serious eye damage/eye irritation

no data available

### Respiratory or skin sensitization

no data available

### Germ cell mutagenicity

no data available

### Carcinogenicity

This product is or contains a component that has been reported to be probably carcinogenic based on its IARC, OSHA, ACGIH, NTP, or EPA classification.

Carcinogenic to humans.

IARC: Group 1: Carcinogenic to humans, nickel compounds (ABS455).

NTP: Known to be Human Carcinogen, nickel compounds (ABS455).

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

### Reproductive toxicity

No data available

**Routes of Exposure:** Inhalation, Eye contact, Ingestion, Skin contact.

**Specific target organ toxicity - single exposure**

No data available

**Specific target organ toxicity - single exposure**

Inhalation – May cause respiratory irritation.

**Specific target organ toxicity - repeated exposure**

No data available

**Aspiration hazard**

No data available

**Signs and Symptoms of Exposure**

May cause respiratory irritation. May cause skin irritation. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**Additional Information**

RTECS: Not available

**12. ECOLOGICAL INFORMATION**

**Toxicity**

No data available

**Persistence and degradability**

No data available

**Bioaccumulative potential**

No data available

**Mobility in soil**

No data available

**PBT and vPvB assessment**

No data available

**Other adverse effects**

No data available

**13. DISPOSAL CONSIDERATIONS**

**Product**

Offer surplus and non-recyclable solutions to a licensed disposal company.

**Contaminated packaging**

Dispose of as unused product.

**14. TRANSPORT INFORMATION**

**DOT (US)**

Not dangerous goods

**IMDG**

Not dangerous goods

**IATA**

Not dangerous goods

## 15. REGULATORY INFORMATION

### SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

### SARA 313 Components

The following components are subject to reporting levels established by SARA Title III, Section 313:  
Nickel compound

### SARA 311/312 Hazards

Acute Health Hazard, Chronic Health Hazard

### Pennsylvania Right To Know Components

No components are subject to the Pennsylvania Right to Know Act.

### Massachusetts Right To Know Components

Nickel compound

### New Jersey Right To Know Components

Nickel compound

### California Prop. 65 Components

Nickel compound

## 16. OTHER INFORMATION

H302	Harmful if swallowed
H312	Harmful in contact with skin
H332	Harmful if inhaled
H350	May cause cancer.

### HMIS Rating

Health hazard:	2
Chronic Health Hazard:	
Flammability:	0
Physical Hazard:	0

### NFPA Rating

Health hazard:	2
Fire Hazard:	0
Reactivity Hazard:	0

### Further information

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