

1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

Product name: ABS 455

Product Number: 04550

Product use: TSCA: For R&D Use Only

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

Toxic Substance Control Act (TSCA 8b.): This product is NOT on the EPA Toxic Substances Control Act (TSCA) inventory. The following notices are required by 40 CFR 720.36 (C) for those products not on the inventory list:

- (i) These products are supplied solely for use in research and development by or under the supervision of a technically qualified individual as defined in 40 CFR 720.0 et sec.
- (ii) The health risks of these products have not been fully determined. Any information that is or becomes available will be supplied on the SDS.

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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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Oakley, Inc. shall not be held liable for any damage resulting from handling or from contact with the above product.

Revised Date: June 10, 2021