

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY**1.1. Product Identifier****Product Form:** Mixture**Product Name:** EconoSpot® All Colors**Product Code:** E&I 23 44, E&I 23 37, E&I 23 45, E&I 23 48, E&I 23 47**1.2. Intended Use of the Product****Use of the Substance/Mixture:** Tree and log marking paint**1.3. Name, Address, and Telephone of the Responsible Party****Company**

The Nelson Paint Company

One Nelson Drive

Kingsford, MI 49802

906-774-5567

www.nelsonpaint.com**1.4. Emergency Telephone Number****Emergency Number** : In US and Canada CHEMTEL: 1-800-255-3924**SECTION 2: HAZARDS IDENTIFICATION****2.1. Classification of the Substance or Mixture****Classification (GHS-US)**

Flam. Liq. 3 H226

Acute Tox. 4 (Oral) H302

Acute Tox. 4 (Dermal) H312

Skin Irrit. 2 H315

Skin Sens. 1 H317

Muta. 1B H340

Carc. 1A H350

STOT SE 1 H370

STOT SE 3 H336

2.2. Label Elements**GHS-US Labeling****Hazard Pictograms (GHS-US)****Signal Word (GHS-US)**

: Danger

Hazard Statements (GHS-US)

: H226 - Flammable liquid and vapor

H302 - Harmful if swallowed

H312 - Harmful in contact with skin

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H336 - May cause drowsiness or dizziness

H340 - May cause genetic defects

H350 - May cause cancer

H370 - Causes damage to organs

Precautionary Statements (GHS-US)

: P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

P210 - Keep away from heat, open flames, sparks - No smoking.

P233 - Keep container tightly closed.

P240 - Ground/bond container and receiving equipment.

P241 - Use explosion-proof electrical, lighting, ventilating equipment.

P242 - Use only non-sparking tools.

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P243 - Take precautionary measures against static discharge.
P260 - Do not breathe mist, spray, vapors.
P264 - Wash hands and forearms thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P271 - Use only outdoors or in a well-ventilated area.
P272 - Contaminated work clothing should not be allowed out of the workplace.
P280 - Wear eye protection, protective clothing, gloves, respiratory protection.
P301+P312 - If swallowed, call a doctor if you feel unwell.
P302+P352 - IF ON SKIN: Wash with plenty of soap and water.
P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P308+P313 - IF exposed or concerned: Get medical advice/attention.
P312 - Call a POISON CENTER or doctor if you feel unwell.
P321 - Specific treatment (see Section 4).
P330 - If swallowed, rinse mouth.
P332+P313 - If skin irritation occurs: Get medical advice/attention.
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P370+P378 - In case of fire: Use appropriate media for extinction.
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
P403+P235 - Store in a well-ventilated place. Keep cool.
P405 - Store locked up.
P501 - Dispose of contents/container according to local, regional, national, and international regulations.

2.3. Other Hazards

No additional information available

2.4. Unknown Acute Toxicity (GHS-US)

No data available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Not applicable

3.2. Mixtures

| Name | Product Identifier | % | Classification (GHS-US) |
|---|---------------------|------------|---|
| Petroleum distillates, hydrotreated light | (CAS No) 64742-47-8 | 15 - 35 | Flam. Liq. 3, H226 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 |
| Methyl alcohol | (CAS No) 67-56-1 | 10 - 20 | Flam. Liq. 2, H225 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation:vapour), H331 STOT SE 1, H370 |
| Titanium dioxide | (CAS No) 13463-67-7 | 0 - 10 | Carc. 2, H351 |
| Iron oxide yellow | (CAS No) 51274-00-1 | 0 - 0.3 | STOT SE 3, H335 STOT RE 1, H372 |
| Quartz | (CAS No) 14808-60-7 | 0.01 - 0.2 | Carc. 1A, H350 STOT SE 3, H335 STOT RE 1, H372 |
| Methyl ethyl ketoxime | (CAS No) 96-29-7 | 0 - 0.2 | Acute Tox. 4 (Dermal), H312 Eye Dam. 1, H318 Skin Sens. 1, H317 Carc. 2, H351 |
| Stoddard solvent | (CAS No) 8052-41-3 | 0.05 - 0.2 | Flam. Liq. 3, H226 Muta. 1B, H340 |

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| | | | |
|--|--|--|-------------------------------------|
| | | | Carc. 1B, H350 Asp. Tox. 1, H304 |
|--|--|--|-------------------------------------|

Full text of H-phrases: see section 16

SECTION 4: FIRST AID MEASURES

4.1. Description of First Aid Measures

First-aid Measures General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid Measures After Inhalation: When symptoms occur: go into open air and ventilate suspected area. IF exposed or concerned: Get medical advice/attention.

First-aid Measures After Skin Contact: Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical advice/attention.

First-aid Measures After Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if pain, blinking or redness persist.

First-aid Measures After Ingestion: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/Injuries: May cause an allergic skin reaction. Irritation to eyes, skin and respiratory tract. Inhalation may affect the nervous system causing headache, possibly dizziness, nausea, weakness, loss of coordination and unconsciousness.

Symptoms/Injuries After Inhalation: May cause cancer by inhalation. Danger of serious damage to health by prolonged exposure through inhalation. May cause irritation or asthma-like symptoms. May cause drowsiness or dizziness.

Symptoms/Injuries After Skin Contact: Causes skin irritation. May cause allergic skin reaction. Harmful in contact with skin.

Symptoms/Injuries After Eye Contact: Causes serious eye irritation.

Symptoms/Injuries After Ingestion: Harmful if swallowed. Causes blindness.

Chronic Symptoms: May cause cancer. Suspected of damaging fertility. Suspected of damaging the unborn child. May cause heritable genetic damage. Causes damage to organs through prolonged or repeated exposure.

4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing Media

Suitable Extinguishing Media: Dry chemical powder, alcohol-resistant foam, carbon dioxide (CO₂).

Unsuitable Extinguishing Media: Do not use a heavy water stream. Use of heavy stream of water may spread fire.

5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard: Flammable liquid and vapor.

Explosion Hazard: May form flammable/explosive vapor-air mixture.

Reactivity: Stable at ambient temperature and under normal conditions of use.

5.3. Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.

Firefighting Instructions: Use water spray or fog for cooling exposed containers.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Use special care to avoid static electric charges. Keep away from heat/sparks/open flames/hot surfaces – No smoking. Do NOT breathe (dust, vapor, mist, gas). Do not get in eyes, on skin, or on clothing.

6.1.1. For Non-emergency Personnel

Protective Equipment: Use appropriate personal protection equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

6.1.2. For Emergency Responders

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Ventilate area. Stop release.

6.2. Environmental Precautions

Prevent entry to sewers and public waters.

6.3. Methods and Material for Containment and Cleaning Up

For Containment: Absorb and/or contain spill with inert material, then place in suitable container. Do not take up in combustible material such as: saw dust or cellulosic material.

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Methods for Cleaning Up: Use only non-sparking tools. Clear up spills immediately and dispose of waste safely.

6.4. Reference to Other Sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for Safe Handling

Additional Hazards When Processed: Handle empty containers with care because residual vapors are flammable.

Precautions for Safe Handling: Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces – No smoking. Do not get in eyes, on skin, or on clothing.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

7.2. Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Proper grounding procedures to avoid static electricity should be followed. Use explosion-proof electrical, ventilating, lighting equipment.

Storage Conditions: Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Store locked up.

Incompatible Products: Strong acids. Strong bases. Strong oxidizers.

7.3. Specific End Use(s) Tree and log marking paint

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters

| Titanium dioxide (13463-67-7) | | |
|--|--|-------------------------|
| USA ACGIH | ACGIH TWA (mg/m ³) | 10 mg/m ³ |
| USA IDLH | US IDLH (mg/m ³) | 5000 mg/m ³ |
| USA OSHA | OSHA PEL (TWA) (mg/m ³) | 15 mg/m ³ |
| Silica, amorphous (7631-86-9) | | |
| USA NIOSH | NIOSH REL (TWA) (mg/m ³) | 6 mg/m ³ |
| USA IDLH | US IDLH (mg/m ³) | 3000 mg/m ³ |
| Quartz (14808-60-7) | | |
| USA ACGIH | ACGIH TWA (mg/m ³) | 0.025 mg/m ³ |
| USA NIOSH | NIOSH REL (TWA) (mg/m ³) | 0.05 mg/m ³ |
| USA IDLH | US IDLH (mg/m ³) | 50 mg/m ³ |
| Stoddard solvent (8052-41-3) | | |
| USA ACGIH | ACGIH TWA (ppm) | 100 ppm |
| USA NIOSH | NIOSH REL (TWA) (mg/m ³) | 350 mg/m ³ |
| USA NIOSH | NIOSH REL (ceiling) (mg/m ³) | 1800 mg/m ³ |
| USA IDLH | US IDLH (mg/m ³) | 20000 mg/m ³ |
| USA OSHA | OSHA PEL (TWA) (mg/m ³) | 2900 mg/m ³ |
| USA OSHA | OSHA PEL (TWA) (ppm) | 500 ppm |
| Nonane (111-84-2) | | |
| USA ACGIH | ACGIH TWA (ppm) | 200 ppm |
| USA NIOSH | NIOSH REL (TWA) (mg/m ³) | 1050 mg/m ³ |
| USA NIOSH | NIOSH REL (TWA) (ppm) | 200 ppm |
| Propylene glycol monomethyl ether (107-98-2) | | |
| USA ACGIH | ACGIH TWA (ppm) | 100 ppm |
| USA ACGIH | ACGIH STEL (ppm) | 150 ppm |
| USA NIOSH | NIOSH REL (TWA) (mg/m ³) | 360 mg/m ³ |
| USA NIOSH | NIOSH REL (TWA) (ppm) | 100 ppm |
| USA NIOSH | NIOSH REL (STEL) (mg/m ³) | 540 mg/m ³ |
| USA NIOSH | NIOSH REL (STEL) (ppm) | 150 ppm |
| Methyl alcohol (67-56-1) | | |
| USA ACGIH | ACGIH TWA (ppm) | 200 ppm |
| USA ACGIH | ACGIH STEL (ppm) | 250 ppm |
| USA NIOSH | NIOSH REL (TWA) (mg/m ³) | 260 mg/m ³ |

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| | | |
|------------------------------|---------------------------------------|-----------------------|
| USA NIOSH | NIOSH REL (TWA) (ppm) | 200 ppm |
| USA NIOSH | NIOSH REL (STEL) (mg/m ³) | 325 mg/m ³ |
| USA NIOSH | NIOSH REL (STEL) (ppm) | 250 ppm |
| USA IDLH | US IDLH (ppm) | 6000 ppm |
| USA OSHA | OSHA PEL (TWA) (mg/m ³) | 260 mg/m ³ |
| USA OSHA | OSHA PEL (TWA) (ppm) | 200 ppm |
| Limestone (1317-65-3) | | |
| USA NIOSH | NIOSH REL (TWA) (mg/m ³) | 5 mg/m ³ |
| USA OSHA | OSHA PEL (TWA) (mg/m ³) | 5 mg/m ³ |
| Kaolin (1332-58-7) | | |
| USA ACGIH | ACGIH TWA (mg/m ³) | 2 mg/m ³ |
| USA NIOSH | NIOSH REL (TWA) (mg/m ³) | 5 mg/m ³ |
| USA OSHA | OSHA PEL (TWA) (mg/m ³) | 5 mg/m ³ |

8.2. Exposure Controls

Appropriate Engineering Controls

: Proper grounding procedures to avoid static electricity should be followed. Use explosion-proof equipment. Take precautionary measures against static discharges. Ensure all national/local regulations are observed. Gas detectors should be used when flammable gases/vapours may be released. Ensure adequate ventilation, especially in confined areas. Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure.

Personal Protective Equipment

: Fireproof clothing. Gloves. Respiratory protection. Face shield.



Hand Protection

: Wear chemically resistant protective gloves.

Eye Protection

: Chemical goggles or safety glasses.

Skin and Body Protection

: Wear suitable protective clothing.

Respiratory Protection

: Use a NIOSH-approved respirator or self-contained breathing apparatus whenever exposure may exceed established Occupational Exposure Limits.

Other Information

: When using, do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemical Properties

| | |
|--|--|
| Physical State | : Liquid |
| Appearance | : Various. |
| Odor | : No data available |
| Odor Threshold | : No data available |
| pH | : No data available |
| Relative Evaporation Rate (butylacetate=1) | : < 1 slower than butyl acetate |
| Melting Point | : No data available |
| Freezing Point | : No data available |
| Boiling Point | : 64.7 - 195 °C (148.5-383 °F) |
| Flash Point | : 35 °C (95 °F) |
| Auto-ignition Temperature | : No data available |
| Decomposition Temperature | : No data available |
| Flammability (solid, gas) | : No data available |
| Vapor Pressure | : No data available |
| Relative Vapor Density at 20 °C | : > 1 heavier than air (air = 1) |
| Relative Density | : No data available |
| Specific Gravity | : 0.89 (H2O=1) |
| Solubility | : In water, material is partially soluble. |

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| | |
|----------------------|---------------------|
| Log Pow | : No data available |
| Log Kow | : No data available |
| Viscosity, Kinematic | : No data available |
| Viscosity, Dynamic | : No data available |
| Explosive Properties | : No data available |
| Oxidizing Properties | : No data available |
| Explosive Limits | : Not applicable |

9.2. Other Information

VOC content : 57 - 58 %

SECTION 10: STABILITY AND REACTIVITY

Reactivity: Stable at ambient temperature and under normal conditions of use.

Chemical Stability: Flammable liquid and vapor. May form flammable/explosive vapor-air mixture.

Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

Conditions to Avoid: Direct sunlight. Extremely high or low temperatures. Open flame. Sparks.

Incompatible Materials: Strong acids. Strong bases. Strong oxidizers.

Hazardous Decomposition Products: Carbon oxides (CO, CO₂). Formaldehyde.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information On Toxicological Effects

Acute Toxicity : Harmful if swallowed. Harmful in contact with skin.

| | |
|---|----------------------------------|
| Titanium dioxide (13463-67-7) | |
| LD50 Oral Rat | > 10000 mg/kg |
| Aluminum hydroxide (21645-51-2) | |
| LD50 Oral Rat | > 5000 mg/kg |
| Silica, amorphous (7631-86-9) | |
| LD50 Oral Rat | > 5000 mg/kg |
| LD50 Dermal Rabbit | > 2000 mg/kg |
| LC50 Inhalation Rat (mg/l) | > 2.2 mg/l (Exposure time: 1 h) |
| C.I. Pigment Green 7 (1328-53-6) | |
| LD50 Oral Rat | > 3000 mg/kg |
| Quartz (14808-60-7) | |
| LD50 Oral Rat | > 5000 mg/kg |
| Quaternary ammonium compounds, bis(hydrogenated tallow alkyl)dimethyl, salts with bentonite (68953-58-2) | |
| LD50 Oral Rat | > 5000 mg/kg |
| LC50 Inhalation Rat (mg/l) | > 12.6 mg/l (Exposure time: 4 h) |
| Petroleum distillates, hydrotreated light (64742-47-8) | |
| LD50 Oral Rat | > 5000 mg/kg |
| LD50 Dermal Rabbit | > 2000 mg/kg |
| LC50 Inhalation Rat (mg/l) | > 5.2 mg/l (Exposure time: 4 h) |
| Stoddard solvent (8052-41-3) | |
| LD50 Oral Rat | > 5 g/kg Behavioral somnolence |
| LD50 Dermal Rabbit | > 3 mg/kg |
| Diethylene glycol monomethyl ether (111-77-3) | |
| LD50 Oral Rat | 4 ml/kg |
| LD50 Dermal Rabbit | 2500 µl/kg |
| Naphtha, petroleum, hydrotreated heavy (64742-48-9) | |
| LD50 Oral Rat | > 5000 mg/kg |
| LD50 Dermal Rabbit | > 3160 mg/kg |
| Nonane (111-84-2) | |
| LC50 Inhalation Rat (ppm) | 3200 ppm (Exposure time: 4 h) |

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| | |
|--|----------------------------------|
| Calcium propionate (4075-81-4) | |
| LD50 Oral Rat | 2600 mg/kg |
| LD50 Dermal Rabbit | 500 mg/kg |
| LC50 Inhalation Rat (mg/l) | > 19.7 mg/l (Exposure time: 1 h) |
| Propylene glycol monomethyl ether (107-98-2) | |
| LD50 Oral Rat | 5200 mg/kg |
| LD50 Dermal Rabbit | 13000 mg/kg |
| LC50 Inhalation Rat (mg/l) | > 24 mg/l (Exposure time: 1 h) |
| 1,2-Propylene glycol (57-55-6) | |
| LD50 Oral Rat | 20000 mg/kg |
| LD50 Dermal Rabbit | 20800 mg/kg |
| Methyl alcohol (67-56-1) | |
| ATE (Oral) | 100.000 mg/kg body weight |
| ATE (Dermal) | 300.000 mg/kg body weight |
| ATE (Vapors) | 3.000 mg/l/4h |
| Hexanoic acid, 2-ethyl-, cobalt(2+) salt (136-52-7) | |
| LD50 Oral Rat | 1.22 g/kg |
| Methyl ethyl ketoxime (96-29-7) | |
| LD50 Oral Rat | 930 mg/kg |
| LD50 Dermal Rabbit | 0.2 mg/kg |
| LC50 Inhalation Rat (mg/l) | 20 mg/l (Exposure time: 4 h) |
| Aluminum phosphate (7784-30-7) | |
| LD50 Dermal Rabbit | > 4640 mg/kg |

Skin Corrosion/Irritation: Causes skin irritation.

Serious Eye Damage/Irritation: Not classified

Respiratory or Skin Sensitization: May cause an allergic skin reaction.

Germ Cell Mutagenicity: May cause genetic defects.

Carcinogenicity: May cause cancer.

| | |
|--|-----------------------------|
| Titanium dioxide (13463-67-7) | |
| IARC group | 2B |
| National Toxicity Program (NTP) Status | Evidence of carcinogenicity |
| Silica, amorphous (7631-86-9) | |
| IARC group | 3 |
| Quartz (14808-60-7) | |
| IARC group | 1 |
| National Toxicity Program (NTP) Status | Known human carcinogen |

Reproductive Toxicity: Not classified

Specific Target Organ Toxicity (Single Exposure): Causes damage to organs. May cause drowsiness or dizziness.

Specific Target Organ Toxicity (Repeated Exposure): Not classified

Aspiration Hazard: Not classified

Symptoms/Injuries After Inhalation: May cause cancer by inhalation. Danger of serious damage to health by prolonged exposure through inhalation. May cause irritation or asthma-like symptoms. May cause drowsiness or dizziness.

Symptoms/Injuries After Skin Contact: Causes skin irritation. May cause an allergic skin reaction.

Symptoms/Injuries After Eye Contact: Causes serious eye irritation.

Symptoms/Injuries After Ingestion: Harmful if swallowed.

Chronic Symptoms: May cause cancer. Suspected of damaging fertility. Suspected of damaging the unborn child. May cause heritable genetic damage. Causes damage to organs through prolonged or repeated exposure.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

| | |
|--------------------------------------|---|
| Silica, amorphous (7631-86-9) | |
| LC50 Fish 1 | 5000 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [static]) |
| EC50 Daphnia 1 | 7600 mg/l (Exposure time: 48 h - Species: Ceriodaphnia dubia) |

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|---|--|
| EC50 Other Aquatic Organisms 1 | 440 mg/l (Exposure time: 72 h - Species: Pseudokirchneriella subcapitata) |
| C.I. Pigment Green 7 (1328-53-6) | |
| LC50 Fish 1 | 752.4 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static]) |
| EC50 Daphnia 1 | > 500 mg/l (Exposure time: 24 h - Species: Daphnia magna Straus) |
| Petroleum distillates, hydrotreated light (64742-47-8) | |
| LC50 Fish 1 | 45 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through]) |
| EC50 Daphnia 1 | 4720 mg/l (Exposure time: 96 h - Species: Den-dronereides heteropoda) |
| LC 50 Fish 2 | 2.2 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static]) |
| Diethylene glycol monomethyl ether (111-77-3) | |
| LC50 Fish 1 | 7500 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static]) |
| EC50 Daphnia 1 | > 500 mg/l (Exposure time: 48 h - Species: Daphnia magna) |
| EC50 Other Aquatic Organisms 1 | > 500 mg/l (Exposure time: 72 h - Species: Desmodemus subspicatus) |
| Naphtha, petroleum, hydrotreated heavy (64742-48-9) | |
| LC50 Fish 1 | 2200 mg/l (Exposure time: 96 h - Species: Pimephales promelas) |
| EC50 Daphnia 1 | 2.6 mg/l (Exposure time: 96 h - Species: Chaetogammarus marinus) |
| Calcium propionate (4075-81-4) | |
| LC50 Fish 1 | > 10000 mg/l (Exposure time: 96 h - Species: Leuciscus idus [static]) |
| EC50 Daphnia 1 | > 500 mg/l (Exposure time: 48 h - Species: Daphnia magna) |
| EC50 Other Aquatic Organisms 1 | > 500 mg/l (Exposure time: 72 h - Species: Desmodemus subspicatus) |
| Propylene glycol monomethyl ether (107-98-2) | |
| LC50 Fish 1 | 20.8 g/l (Exposure time: 96 h - Species: Pimephales promelas [static]) |
| EC50 Daphnia 1 | 23300 mg/l (Exposure time: 48 h - Species: Daphnia magna) |
| LC 50 Fish 2 | 4600 - 10000 mg/l (Exposure time: 96 h - Species: Leuciscus idus [static]) |
| 1,2-Propylene glycol (57-55-6) | |
| LC50 Fish 1 | 51600 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static]) |
| EC50 Daphnia 1 | 10000 mg/l (Exposure time: 24 h - Species: Daphnia magna) |
| EC50 Other Aquatic Organisms 1 | 19000 mg/l (Exposure time: 96 h - Species: Pseudokirchneriella subcapitata) |
| LC 50 Fish 2 | 41 (41 - 47) mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static]) |
| EC50 Daphnia 2 | 1000 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static]) |
| Methyl alcohol (67-56-1) | |
| LC50 Fish 1 | 28200 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through]) |
| LC 50 Fish 2 | > 100 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static]) |
| C.I. Pigment Blue 15 (147-14-8) | |
| LC50 Fish 1 | > 100 mg/l (Exposure time: 48 h - Species: Oryzias latipes [static]) |
| Methyl ethyl ketoxime (96-29-7) | |
| LC50 Fish 1 | 777 - 914 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through]) |
| EC50 Daphnia 1 | 750 mg/l (Exposure time: 48 h - Species: Daphnia magna) |
| EC50 Other Aquatic Organisms 1 | 83 mg/l (Exposure time: 72 h - Species: Desmodemus subspicatus) |
| LC 50 Fish 2 | 320 - 1000 mg/l (Exposure time: 96 h - Species: Leuciscus idus [static]) |
| 12.2. Persistence and Degradability | |
| EconoSpot® All Colors | |
| Persistence and Degradability | Not established. |
| 12.3. Bioaccumulative Potential | |
| EconoSpot® All Colors | |
| Bioaccumulative Potential | Not established. |
| Silica, amorphous (7631-86-9) | |
| BCF fish 1 | (no bioaccumulation expected) |
| Zirconium oxide (1314-23-4) | |
| BCF fish 1 | (no bioaccumulation) |

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| C.I. Pigment Green 7 (1328-53-6) | |
| BCF fish 1 | 0.51 - 74 |
| Petroleum distillates, hydrotreated light (64742-47-8) | |
| BCF fish 1 | 61 - 159 |
| Stoddard solvent (8052-41-3) | |
| Log Pow | 3.16 (Octanol/water partition coefficient 3.16/7.06) |
| Diethylene glycol monomethyl ether (111-77-3) | |
| Log Pow | -0.682 |
| Propylene glycol monomethyl ether (107-98-2) | |
| BCF fish 1 | < 2 |
| Log Pow | -0.437 |
| 1,2-Propylene glycol (57-55-6) | |
| BCF fish 1 | < 1 |
| Methyl alcohol (67-56-1) | |
| BCF fish 1 | < 10 |
| Log Pow | -0.77 |
| C.I. Pigment Blue 15 (147-14-8) | |
| BCF fish 1 | 0.3 - 11 |
| Log Pow | 6.6 (at 25 °C) |
| Methyl ethyl ketoxime (96-29-7) | |
| BCF fish 1 | 0.5 - 5.8 |
| Log Pow | 0.65 (at 25 °C) |

12.4. Mobility in Soil No additional information available

12.5. Other Adverse Effects

Other Information : Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, and international regulations.

Additional Information: Handle empty containers with care because residual vapors are flammable.

SECTION 14: TRANSPORT INFORMATION

In Accordance With ICAO/IATA/DOT/TDG

14.1. UN Number

UN-No.(DOT) : 1263

DOT NA no. : UN1263

14.2. UN Proper Shipping Name

DOT Proper Shipping Name : Paint
including paint, lacquer, enamel, stain, shellac solutions, varnish, polish, liquid filler,
and liquid lacquer base

Department of Transportation (DOT) : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120

Hazard Classes

Hazard Labels (DOT) : 3 - Flammable liquids



Packing Group (DOT) : III - Minor Danger

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- DOT Special Provisions (49 CFR 172.102)** :
- B1 - If the material has a flash point at or above 38 C (100 F) and below 93 C (200 F), then the bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has a flash point of less than 38 C (100 F), then the bulk packaging requirements of 173.242 of this subchapter are applicable.
 - B52 - Notwithstanding the provisions of 173.24b of this subchapter, non-reclosing pressure relief devices are authorized on DOT 57 portable tanks.
 - IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672).
 - T2 - 1.5 178.274(d)(2) Normal..... 178.275(d)(3)
 - TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = $97 / (1 + a (tr - tf))$ Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling.
 - TP29 - A portable tank having a minimum test pressure of 1.5 bar (150.0 kPa) may be used provided the calculated test pressure is 1.5 bar or less based on the MAWP of the hazardous materials, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the MAWP.

- DOT Packaging Exceptions (49 CFR 173.xxx)** : 150
DOT Packaging Non Bulk (49 CFR 173.xxx) : 173
DOT Packaging Bulk (49 CFR 173.xxx) : 242

14.3. Additional Information

- Emergency Response Guide (ERG) Number** : 128
Other information : No supplementary information available.
Transport by Sea
DOT Vessel Stowage Location : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.

Air Transport

- DOT Quantity Limitations Passenger Aircraft/Rail (49 CFR 173.27)** : 60 L
DOT Quantity Limitations Cargo Aircraft Only (49 CFR 175.75) : 220 L

SECTION 15: REGULATORY INFORMATION

US Federal Regulations

| | |
|---|--|
| EconoSpot® All Colors | |
| SARA Section 311/312 Hazard Classes | Delayed (chronic) health hazard Fire hazard |
| Titanium dioxide (13463-67-7) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |
| Aluminum hydroxide (21645-51-2) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |
| Silica, amorphous (7631-86-9) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |
| Zirconium oxide (1314-23-4) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |
| C.I. Pigment Green 7 (1328-53-6) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |
| Linseed oil (8001-26-1) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |
| EPA TSCA Regulatory Flag | Y2 - Y2 - indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule. |
| Quartz (14808-60-7) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |

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| | |
|---|--|
| Quaternary ammonium compounds, bis(hydrogenated tallow alkyl)dimethyl, salts with bentonite (68953-58-2) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |
| Petroleum distillates, hydrotreated light (64742-47-8) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |
| Stoddard solvent (8052-41-3) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |
| Diethylene glycol monomethyl ether (111-77-3) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |
| 2-Ethylhexanoic acid, manganese salt (15956-58-8) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |
| Neodecanoic acid, manganese salt (27253-32-3) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |
| Naphtha, petroleum, hydrotreated heavy (64742-48-9) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |
| Nonane (111-84-2) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |
| Zirconium ethyl hexoate (22464-99-9) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |
| Zirconium, bis(acetato-O)oxo- (5153-24-2) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |
| Calcium 2-ethylhexanoate (136-51-6) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |
| Calcium neodecanoate (27253-33-4) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |
| Calcium propionate (4075-81-4) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |
| Propylene glycol monomethyl ether (107-98-2) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |
| Soybean lecithin (8002-43-5) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |
| Tall oil fatty acids, ethoxylated (61791-00-2) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |
| 1,2-Propylene glycol (57-55-6) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |
| EPA TSCA Regulatory Flag | Y2 - Y2 - indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule. |
| Water (7732-18-5) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |
| Methyl alcohol (67-56-1) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |
| Listed on SARA Section 313 (Specific toxic chemical listings) | |
| SARA Section 311/312 Hazard Classes | Delayed (chronic) health hazard Immediate (acute) health hazard Fire hazard |
| SARA Section 313 - Emission Reporting | 1.0 % |
| Iron oxide yellow (51274-00-1) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |
| Hexanoic acid, 2-ethyl-, cobalt(2+) salt (136-52-7) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |
| D and C Orange No. 17 (3468-63-1) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |

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| | |
|---|---|
| C.I. Pigment Blue 15 (147-14-8) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |
| Pigment yellow 74 (6358-31-2) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |
| Limestone (1317-65-3) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |
| Methyl ethyl ketoxime (96-29-7) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |
| EPA TSCA Regulatory Flag | T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA. |
| Butanamide, 2-[(4-methoxy-2-nitrophenyl)azo]-N-(2-methoxyphenyl)-3-oxo- (6528-34-3) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |
| Kaolin (1332-58-7) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |
| Aluminum phosphate (7784-30-7) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |
| US State Regulations | |
| Titanium dioxide (13463-67-7) | |
| U.S. - California - Proposition 65 - Carcinogens List | WARNING: This product contains chemicals known to the State of California to cause cancer. |
| Quartz (14808-60-7) | |
| U.S. - California - Proposition 65 - Carcinogens List | WARNING: This product contains chemicals known to the State of California to cause cancer. |
| Methyl alcohol (67-56-1) | |
| U.S. - California - Proposition 65 - Developmental Toxicity | WARNING: This product contains chemicals known to the State of California to cause birth defects. |
| D and C Orange No. 17 (3468-63-1) | |
| U.S. - California - Proposition 65 - Carcinogens List | WARNING: This product contains chemicals known to the State of California to cause cancer. |
| Titanium dioxide (13463-67-7) | |
| U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List | |
| Silica, amorphous (7631-86-9) | |
| U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List | |
| Zirconium oxide (1314-23-4) | |
| U.S. - Massachusetts - Right To Know List | |
| Linseed oil (8001-26-1) | |
| U.S. - Pennsylvania - RTK (Right to Know) List | |
| Quartz (14808-60-7) | |
| U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List | |
| Stoddard solvent (8052-41-3) | |
| U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List | |
| Diethylene glycol monomethyl ether (111-77-3) | |
| U.S. - Massachusetts - Right To Know List U.S. - Pennsylvania - RTK (Right to Know) List | |
| Nonane (111-84-2) | |
| U.S. - Massachusetts - Right To Know List | |

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| |
|---|
| U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List |
| Propylene glycol monomethyl ether (107-98-2) U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List |
| 1,2-Propylene glycol (57-55-6) U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List |
| Methyl alcohol (67-56-1) U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List U.S. - Pennsylvania - RTK (Right to Know) List |
| Limestone (1317-65-3) U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List |
| Kaolin (1332-58-7) U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List |
| Aluminum phosphate (7784-30-7) U.S. - New Jersey - Right to Know Hazardous Substance List |

SECTION 16: OTHER INFORMATION

Other Information : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

GHS Full Text Phrases:

| | |
|----------------------------------|--|
| Acute Tox. 3 (Dermal) | Acute toxicity (dermal) Category 3 |
| Acute Tox. 3 (Inhalation:vapour) | Acute toxicity (inhalation:vapour) Category 3 |
| Acute Tox. 3 (Oral) | Acute toxicity (oral) Category 3 |
| Acute Tox. 4 (Dermal) | Acute toxicity (dermal) Category 4 |
| Acute Tox. 4 (Oral) | Acute toxicity (oral) Category 4 |
| Aquatic Acute 1 | Hazardous to the aquatic environment - Acute Hazard Category 1 |
| Aquatic Chronic 1 | Hazardous to the aquatic environment - Chronic Hazard Category 1 |
| Aquatic Chronic 2 | Hazardous to the aquatic environment - Chronic Hazard Category 2 |
| Asp. Tox. 1 | Aspiration hazard Category 1 |
| Carc. 1A | Carcinogenicity Category 1A |
| Carc. 1B | Carcinogenicity Category 1B |
| Carc. 2 | Carcinogenicity Category 2 |
| Eye Dam. 1 | Serious eye damage/eye irritation Category 1 |
| Flam. Liq. 2 | Flammable liquids Category 2 |
| Flam. Liq. 3 | Flammable liquids Category 3 |
| Muta. 1B | Germ cell mutagenicity Category 1B |
| Repr. 2 | Reproductive toxicity Category 2 |
| Skin Irrit. 2 | skin corrosion/irritation Category 2 |
| Skin Sens. 1 | Skin sensitization Category 1 |
| STOT RE 1 | Specific target organ toxicity (repeated exposure) Category 1 |
| STOT RE 2 | Specific target organ toxicity (repeated exposure) Category 2 |
| STOT SE 1 | Specific target organ toxicity (single exposure) Category 1 |
| STOT SE 3 | Specific target organ toxicity (single exposure) Category 3 |
| STOT SE 3 | Specific target organ toxicity (single exposure) Category 3 |

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| | |
|------|---|
| H225 | Highly flammable liquid and vapor |
| H226 | Flammable liquid and vapor |
| H301 | Toxic if swallowed |
| H302 | Harmful if swallowed |
| H304 | May be fatal if swallowed and enters airways |
| H311 | Toxic in contact with skin |
| H312 | Harmful in contact with skin |
| H315 | Causes skin irritation |
| H317 | May cause an allergic skin reaction |
| H318 | Causes serious eye damage |
| H331 | Toxic if inhaled |
| H335 | May cause respiratory irritation |
| H336 | May cause drowsiness or dizziness |
| H340 | May cause genetic defects |
| H350 | May cause cancer |
| H351 | Suspected of causing cancer |
| H361 | Suspected of damaging fertility or the unborn child |
| H370 | Causes damage to organs |
| H372 | Causes damage to organs through prolonged or repeated exposure |
| H373 | May cause damage to organs through prolonged or repeated exposure |
| H400 | Very toxic to aquatic life |
| H410 | Very toxic to aquatic life with long lasting effects |
| H411 | Toxic to aquatic life with long lasting effects |

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SDS US (GHS HazCom)