

Section 1: Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product identifier

Product Name • **DTX BAR**

Product Description • Black liquid.

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

Relevant identified use(s) • Acid resist inkjet fluid

1.3 Details of the supplier of the safety data sheet

Manufacturer • IKONICS Corporation
 4832 Grand Ave.
 Duluth, MN 55807
 United States
 www.ikonics.com
 sds@ikonics.com

Telephone (General) • (218) 628-2217

Telephone (General) • (800) 328-4261 - Toll free

1.4 Emergency telephone number

Chemtrec • 1-800-424-9300 - Within USA and Canada
 • +1 703-527-3887 - Outside USA and Canada (collect calls accepted)

Section 2: Hazards Identification

EU/EEC

According to: Regulation (EC) No 1272/2008 (CLP)/REACH 1907/2006 [amended by 2015/830]

2.1 Classification of the substance or mixture

CLP • Skin Irritation 2 - H315
 Skin Sensitization 1 - H317
 Eye Irritation 2 - H319
 EUH208 - Contains sensitizing substance (aromatic acrylate; Acrylic acid, tridecyl ester; Phosphine oxide, phenylbis (2,4,6-trimethyl benzoyl); p-Methoxyphenol). May produce an allergic reaction.

2.2 Label Elements

CLP

WARNING



Hazard statements • H315 - Causes skin irritation
 H317 - May cause an allergic skin reaction
 H319 - Causes serious eye irritation

Prevention • P261 - Avoid breathing dust, fume, gas, mist, vapors and/or spray.
 P264 - Wash thoroughly after handling.
 P272 - Contaminated work clothing should not be allowed out of the workplace.
 P280 - Wear protective gloves/protective clothing/eye protection/face protection.

Response • P302+P352 - IF ON SKIN: Wash with plenty of water and soap.

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P321 - Specific treatment, see supplemental first aid information.

Storage/Disposal • P501 - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

2.3 Other Hazards

CLP • No data available

UN GHS Revision 6

According to: UN Globally Harmonized System of Classification and Labelling of Chemicals (GHS): Sixth Revised Edition

2.1 Classification of the substance or mixture

UN GHS • Skin Irritation 2
Skin Sensitization 1
Eye Irritation 2

2.2 Label elements

UN GHS

WARNING



Hazard statements • Causes skin irritation
May cause an allergic skin reaction
Causes serious eye irritation

Precautionary statements

Prevention • Avoid breathing dust, fume, gas, mist, vapors and/or spray.
Wash thoroughly after handling.
Contaminated work clothing should not be allowed out of the workplace.
Wear protective gloves/protective clothing/eye protection/face protection.

Response • IF ON SKIN: Wash with plenty of water and soap.
If skin irritation or rash occurs: Get medical advice/attention.
Take off contaminated clothing and wash it before reuse.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.
Specific treatment, see supplemental first aid information.

Storage/Disposal • Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

2.3 Other hazards

UN GHS • No data available

United States (US)

According to: OSHA 29 CFR 1910.1200 HCS

2.1 Classification of the substance or mixture

OSHA HCS 2012 • Skin Irritation 2
Skin Sensitization 1
Eye Irritation 2

2.2 Label elements

OSHA HCS 2012

WARNING



- Hazard statements**
- Causes skin irritation
 - May cause an allergic skin reaction
 - Causes serious eye irritation

Precautionary statements

- Prevention**
- Avoid breathing dust, fume, gas, mist, vapors and/or spray.
 - Wash thoroughly after handling.
 - Contaminated work clothing should not be allowed out of the workplace.
 - Wear protective gloves/protective clothing/eye protection/face protection.
- Response**
- If on skin: Wash with plenty of water and soap.
 - If skin irritation or rash occurs: Get medical advice/attention.
 - Take off contaminated clothing and wash it before reuse.
 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 - If eye irritation persists: Get medical advice/attention.
 - Specific treatment, see supplemental first aid information.

- Storage/Disposal**
- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

2.3 Other hazards

OSHA HCS 2012

- No data available

Canada

According to: WHMIS 2015

2.1 Classification of the substance or mixture

WHMIS 2015

- Skin Irritation 2
- Skin Sensitization 1
- Eye Irritation 2

2.2 Label elements

WHMIS 2015

WARNING



- Hazard statements**
- Causes skin irritation
 - May cause an allergic skin reaction
 - Causes serious eye irritation

Precautionary statements

- Prevention**
- Avoid breathing dust, fume, gas, mist, vapors and/or spray.
 - Wash thoroughly after handling.
 - Contaminated work clothing should not be allowed out of the workplace.
 - Wear protective gloves/protective clothing/eye protection/face protection.
- Response**
- IF ON SKIN: Wash with plenty of water and soap.
 - If skin irritation or rash occurs: Get medical advice/attention.
 - Take off contaminated clothing and wash it before reuse.
 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.
 If eye irritation persists: Get medical advice/attention.
 Specific treatment, see supplemental first aid information.

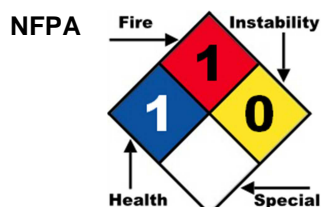
Storage/Disposal • Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

2.3 Other hazards

WHMIS 2015

• No data available

2.4 Other information



See Section 12 for Ecological Information.

Section 3 - Composition/Information on Ingredients

3.1 Substances

3.2 Mixtures

| Composition | | | | | |
|--|--|--------------------|--|--|----------|
| Chemical Name | Identifiers | % | LD50/LC50 | Classifications According to Regulation/Directive | Comments |
| aromatic acrylate | NDA | 80% TO 90% | | EU CLP: Skin Irrit. 2; Eye Irrit. 2; Skin Sens. 1 UN GHS Revision 6: Skin Irrit. 2; Eye Irrit. 2; Skin Sens. 1 OSHA HCS 2012: Skin Irrit. 2; Eye Irrit. 2; Skin Sens. 1 WHMIS 2015: Skin Irrit. 2; Eye Irrit. 2; Skin Sens. 1 | NDA |
| Acrylic acid, tridecyl ester | CAS: 3076-04-8 EINECS: 221-351-8 | 10% TO 20% | Ingestion/Oral-Rat LD50 • 44700 µL/kg Skin-Rabbit LD50 • 6300 µL/kg | EU CLP: Skin Sens. 1 UN GHS Revision 6: Skin Sens. 1 OSHA HCS 2012: Skin Sens. 1 WHMIS 2015: Skin Sens. 1 | NDA |
| Phosphine oxide, phenylbis (2,4,6-trimethyl benzoyl) | CAS: 162881-26-7 EC Number: 423-340-5 EU Index: 015-189-00-5 | 1% TO 3% | | EU CLP: Skin Sens. 1; Aquatic Chronic 4 UN GHS Revision 6: Skin Sens. 1; Aquatic Chronic 4 OSHA HCS 2012: Skin Sens. 1 WHMIS 2015: Skin Sens. 1 | NDA |
| p-Methoxyphenol | CAS: 150-76-5 EC Number: 205-769-8 EU Index: 604-044-00-7 EINECS: 205-769-8 | 0.1% TO 0.2% | | EU CLP: Acute Tox. 4; Eye Irrit. 2; Skin Sens. 1 UN GHS Revision 6: Acute Tox. 4; Eye Irrit. 2; Skin Sens. 1 OSHA HCS 2012: Acute Tox. 4; Eye Irrit. 2; Skin Sens. 1 WHMIS 2015: Acute Tox. 4; Eye Irrit. 2; Skin Sens. 1 | NDA |

See Section 11 for Toxicological Information.

Section 4 - First Aid Measures

4.1 Description of first aid measures

Inhalation

• IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position

comfortable for breathing. If not breathing, give artificial respiration and call 911 or emergency medical service.

- Skin**
- IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.
- Eye**
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
- Ingestion**
- If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Rinse mouth. Never give anything by mouth to an unconscious person. If large quantities are swallowed, call a physician immediately.

4.2 Most important symptoms and effects, both acute and delayed

- Refer to Section 11 - Toxicological Information.

4.3 Indication of any immediate medical attention and special treatment needed

Section 5 - Firefighting Measures

5.1 Extinguishing media

Suitable Extinguishing Media

- SMALL FIRES: Dry chemical, CO₂, water spray or regular foam.
- LARGE FIRE: Water spray, fog or regular foam.

Unsuitable Extinguishing Media

- No data available

Firefighting Procedures

- LARGE FIRES: Use extinguishing agent suitable for type of surrounding fire. Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Keep unauthorized personnel away. Ventilate closed spaces before entering.

5.2 Special hazards arising from the substance or mixture

Unusual Fire and Explosion Hazards

- Material may burn, but does not ignite readily.

Hazardous Combustion Products

- Products of combustion include: carbon oxides (CO_x), nitrogen oxides (NO_x).

5.3 Advice for firefighters

- Structural firefighters' protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations where direct contact with the substance is possible. Wear chemical protective clothing that is specifically recommended by the manufacturer. It may provide little or no thermal protection. Wear positive pressure self-contained breathing apparatus (SCBA).

Section 6 - Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Precautions

- Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate enclosed areas.

Emergency Procedures

- No emergency procedures are expected to be necessary if material is used under ordinary conditions as recommended. Use normal clean up procedures.

6.2 Environmental precautions

- LARGE SPILLS: Prevent entry into waterways, sewers, basements or confined areas.

6.3 Methods and material for containment and cleaning up

Containment/Clean-up Measures

- Use appropriate Personal Protective Equipment (PPE) Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in suitable container.

6.4 Reference to other sections

- Refer to Section 8 - Exposure Controls/Personal Protection and Section 13 - Disposal Considerations.

Section 7 - Handling and Storage

7.1 Precautions for safe handling

Handling • Use good safety and industrial hygiene practices.

7.2 Conditions for safe storage, including any incompatibilities

Storage • Keep container closed when not in use. Store away from extreme heat. Do not freeze. Store material in its original packaging to prevent UV exposure.

7.3 Specific end use(s)

• Refer to Section 1.2 - Relevant identified uses.

Section 8 - Exposure Controls/Personal Protection

8.1 Control parameters

| Exposure Limits/Guidelines | | | | | | |
|-------------------------------------|--------|-------------------------|----------------------------|------------------------------|------------------------------|--------------------|
| | Result | ACGIH | Argentina | Australia | Belgium | Canada Alberta |
| p-Methoxyphenol (150-76-5) | TWAs | 5 mg/m3 TWA | 5 mg/m3 TWA [CMP] | 5 mg/m3 TWA | 5 mg/m3 TWA | 5 mg/m3 TWA |
| Exposure Limits/Guidelines (Con't.) | | | | | | |
| | Result | Canada British Columbia | Canada Manitoba | Canada New Brunswick | Canada Northwest Territories | Canada Nova Scotia |
| p-Methoxyphenol (150-76-5) | TWAs | 5 mg/m3 TWA | 5 mg/m3 TWA | 5 mg/m3 TWA | 5 mg/m3 TWA | 5 mg/m3 TWA |
| | STELs | Not established | Not established | Not established | 10 mg/m3 STEL | Not established |
| Exposure Limits/Guidelines (Con't.) | | | | | | |
| | Result | Canada Ontario | Canada Quebec | Canada Saskatchewan | Denmark | France |
| p-Methoxyphenol (150-76-5) | TWAs | 5 mg/m3 TWA | 5 mg/m3 TWAEV | 5 mg/m3 TWA | 5 mg/m3 TWA | 5 mg/m3 TWA [VME] |
| | STELs | Not established | Not established | 10 mg/m3 STEL | Not established | Not established |
| Exposure Limits/Guidelines (Con't.) | | | | | | |
| | Result | Indonesia | Ireland | Korea | New Zealand | NIOSH |
| p-Methoxyphenol (150-76-5) | TWAs | 5 mg/m3 TWA | 5 mg/m3 TWA | 5 mg/m3 TWA (Serial No. 165) | 5 mg/m3 TWA | 5 mg/m3 TWA |
| | STELs | Not established | 15 mg/m3 STEL (calculated) | Not established | Not established | Not established |
| Exposure Limits/Guidelines (Con't.) | | | | | | |
| | Result | Norway | Poland | Portugal | Singapore | South Africa |
| p-Methoxyphenol (150-76-5) | TWAs | 5 mg/m3 TWA | 5 mg/m3 TWA [NDS] | 5 mg/m3 TWA [VLE-MP] | 5 mg/m3 PEL | 5 mg/m3 TWA |
| Exposure Limits/Guidelines (Con't.) | | | | | | |
| | Result | Spain | | Taiwan | Venezuela | |
| p-Methoxyphenol (150-76-5) | TWAs | 5 mg/m3 TWA [VLA-ED] | | 5 mg/m3 TWA | 5 mg/m3 TWA [VTRE-L-8/40] | |

Exposure Control Notations

Spain

•p-Methoxyphenol (150-76-5): **Sensitizers:** (sensitizer)

Venezuela

•p-Methoxyphenol (150-76-5): **Sensitizers:** (Sensitizer)

Exposure Limits Supplemental

ACGIH

•p-Methoxyphenol (150-76-5): **TLV Basis - Critical Effects:** (eye irritation; skin damage)

8.2 Exposure controls

Engineering Measures/Controls • Local exhaust is recommended but not required. Provide adequate ventilation as necessary.

Personal Protective Equipment

Pictograms



Respiratory

- Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or symptoms are experienced.

Eye/Face

- Wear protective eyewear (goggles, face shield, or safety glasses).

Hands

- Wear protective gloves - rubber or neoprene.

Skin/Body

- Wear protective clothing - apron or other impervious body coverings.

General Industrial

- Handle in accordance with good industrial hygiene and safety practice.

Hygiene Considerations

Environmental Exposure

- No data available

Controls

Section 9 - Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Properties

| Material Description | | | |
|---------------------------------------|---------------------------------------|-------------------------------------|-------------------|
| Physical Form | Liquid | Color | Black |
| Odor | Mild | Odor Threshold | No data available |
| Physical and Chemical Properties | UV reactive. | | |
| General Properties | | | |
| Boiling Point | No data available | Melting Point/Freezing Point | No data available |
| Decomposition Temperature | No data available | pH | No data available |
| Specific Gravity/Relative Density | = 1.012 Water=1 | Water Solubility | Insoluble |
| Viscosity | 80 to 85 Centipoise (cPs, cP) or mPas | Explosive Properties | Not relevant |
| Oxidizing Properties: | Not relevant | | |
| Volatility | | | |
| Vapor Pressure | Not relevant | Vapor Density | Not relevant |
| Evaporation Rate | No data available | | |
| Flammability | | | |
| Flash Point | No data available | UEL | Not relevant |
| LEL | Not relevant | Autoignition | Not relevant |
| Flammability (solid, gas) | Not relevant | | |
| Environmental | | | |
| Half-Life | No data available | Octanol/Water Partition coefficient | No data available |
| Coefficient of water/oil distribution | No data available | Bioaccumulation Factor | No data available |
| Bioconcentration Factor | No data available | Biochemical Oxygen Demand BOD/BOD5 | No data available |
| Chemical Oxygen Demand | No data available | Persistence | No data available |
| Degradation | No data available | | |

9.2 Other Information

- Polymerizes to solid/semisolid form upon exposure to UV radiation.

Section 10: Stability and Reactivity

10.1 Reactivity

- No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

- UV reactive.

10.3 Possibility of hazardous reactions

- Hazardous polymerization will not occur.

10.4 Conditions to avoid

- Avoid freezing. Excess heat. Strong light.

10.5 Incompatible materials

- No data available

10.6 Hazardous decomposition products

- No decomposition is expected under normal storage and use conditions. Hazardous decomposition products formed under fire conditions - carbon oxides (COx), nitrogen oxides (NOx).

Section 11 - Toxicological Information

11.1 Information on toxicological effects

| Components | | |
|---|-----------|--|
| Acrylic acid, tridecyl ester (10% TO 20%) | 3076-04-8 | Acute Toxicity: Ingestion/Oral-Rat LD50 • 44700 µL/kg; Skin-Rabbit LD50 • 6300 µL/kg; Irritation: Skin-Rabbit • 10 mg 24 Hour(s)-Open • Severe irritation |
| p-Methoxyphenol (0.1% TO 0.2%) | 150-76-5 | Acute Toxicity: Ingestion/Oral-Rat LD50 • 1600 mg/kg; Irritation: Skin-Rabbit • 6 g 12 Day(s)-Intermittent • Mild irritation; Multi-dose Toxicity: Ingestion/Oral-Rat TDLo • 18375 mg/kg 7 Week(s)-Intermittent; <i>Kidney, Ureter, and Bladder</i> . Other changes in urine composition; Endocrine:Differential effect of sex or castration on observed toxicity; Nutritional and Gross Metabolic:Gross Metabolite Changes:Weight loss or decreased weight gain |

| GHS Properties | Classification |
|-------------------------------|---|
| Acute toxicity | EU/CLP• UN GHS 6• OSHA HCS 2012• WHMIS 2015• |
| Skin corrosion/Irritation | EU/CLP•Skin Irritation 2 UN GHS 6•Skin Irritation 2 OSHA HCS 2012•Skin Irritation 2 WHMIS 2015•Skin Irritation 2 |
| Serious eye damage/Irritation | EU/CLP•Eye Irritation 2 UN GHS 6•Eye Irritation 2 OSHA HCS 2012•Eye Irritation 2 WHMIS 2015•Eye Irritation 2 |
| Skin sensitization | EU/CLP•Skin Sensitizer 1 UN GHS 6•Skin Sensitizer 1 OSHA HCS 2012•Skin Sensitizer 1 WHMIS 2015•Skin Sensitizer 1 |
| Respiratory sensitization | EU/CLP• UN GHS 6• OSHA HCS 2012• WHMIS 2015• |
| Aspiration Hazard | EU/CLP• UN GHS 6• OSHA HCS 2012• WHMIS 2015• |
| Carcinogenicity | EU/CLP• UN GHS 6• OSHA HCS 2012• WHMIS 2015• |
| Germ Cell Mutagenicity | EU/CLP• UN GHS 6• OSHA HCS 2012• WHMIS 2015• |
| Toxicity for Reproduction | EU/CLP• UN GHS 6• OSHA HCS 2012• |

| | |
|---------|---|
| | WHMIS 2015• |
| STOT-SE | EU/CLP• UN GHS 6• OSHA HCS 2012• WHMIS 2015• |
| STOT-RE | EU/CLP• UN GHS• OSHA HCS 2012• WHMIS 2015• |

Route(s) of entry/exposure • Skin, Eye

Potential Health Effects

Inhalation

Acute (Immediate)

- May cause irritation.

Chronic (Delayed)

- Repeated and prolonged exposure may cause irritation.

Skin

Acute (Immediate)

- Causes skin irritation. May cause an allergic skin reaction.

Chronic (Delayed)

- Repeated and prolonged exposure may cause sensitization.

Eye

Acute (Immediate)

- Causes serious eye irritation.

Chronic (Delayed)

- Repeated and prolonged exposure may be harmful.

Ingestion

Acute (Immediate)

- May cause irritation.

Chronic (Delayed)

- No specific information available.

Section 12 - Ecological Information

12.1 Toxicity

| Components | | |
|---|-------------|--|
| Phosphine oxide, phenylbis (2,4,6-trimethyl benzoyl) (1% TO 3%) | 162881-26-7 | Aquatic Toxicity-Fish: 96 Hour(s) LC50 <i>Brachydanio rerio</i> 0.09 mg/kg Aquatic Toxicity-Crustacea: 48 Hour(s) EC50 <i>Daphnia magna</i> 1.175 mg/kg |
| p-Methoxyphenol (0.1% TO 0.2%) | 150-76-5 | Aquatic Toxicity-Fish: 96 Hour(s) LC50 <i>Pimephales promelas (Fathead Minnow)</i> 84.3 mg/L Comments: Use of Joint Toxic Response to Define the Primary Mode of Toxic Action for Diverse Industrial Organic Chemicals |

12.2 Persistence and degradability

- No data available

12.3 Bioaccumulative potential

- No data available

12.4 Mobility in Soil

- No data available

12.5 Results of PBT and vPvB assessment

- No data available

12.6 Other adverse effects

Section 13 - Disposal Considerations

13.1 Waste treatment methods

Product waste

- Dispose of content in accordance with local, regional, national, and/or international regulations.

Packaging waste

- Dispose of container in accordance with local, regional, national, and/or international regulations.

13.2 Other Information

- Dispose of wastes in an approved waste disposal facility.

Section 14 - Transport Information

| | 14.1 UN number | 14.2 UN proper shipping name | 14.3 Transport hazard class(es) | 14.4 Packing group | 14.5 Environmental hazards |
|-----------|----------------|------------------------------|---------------------------------|--------------------|----------------------------|
| DOT | NDA | NDA | NDA | NDA | NDA |
| IMO/IMDG | NDA | NDA | NDA | NDA | NDA |
| IATA/ICAO | NDA | NDA | NDA | NDA | NDA |

14.6 Special precautions for user • None specified.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code • Not relevant.

14.8 Other information

DOT • Not regulated.

IMO/IMDG • Not regulated.

IATA/ICAO • Not regulated.

Section 15 - Regulatory Information

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

SARA Hazard Classifications • Acute

State Right To Know

| Component | CAS | MA | NJ | PA |
|---|-------------|-----|-----|-----|
| Acrylic acid, tridecyl ester | 3076-04-8 | No | No | No |
| Amines, C12-14-tert-alkyl, compds. with 1-[[5-(1,1-dimethylpropyl)-2-hydroxy-3-nitrophenyl]azo]-2-naphthalenol 1-[[2-hydroxy-4(or 5)-nitrophenyl]azo]-2-naphthalenol chromium complexes | 117527-94-3 | No | No | No |
| Phosphine oxide, phenylbis (2,4,6-trimethyl benzoyl) | 162881-26-7 | No | No | No |
| p-Methoxyphenol | 150-76-5 | Yes | Yes | Yes |

Inventory

| Component | CAS | Australia AICS | Canada DSL | Canada NDSL | China | EU EINECS |
|---|-------------|----------------|------------|-------------|-------|-----------|
| Acrylic acid, tridecyl ester | 3076-04-8 | Yes | No | Yes | Yes | Yes |
| Amines, C12-14-tert-alkyl, compds. with 1-[[5-(1,1-dimethylpropyl)-2-hydroxy-3-nitrophenyl]azo]-2-naphthalenol 1-[[2-hydroxy-4(or 5)-nitrophenyl]azo]-2-naphthalenol chromium | 117527-94-3 | Yes | Yes | No | Yes | No |

| complexes | | | | | | |
|---|-------------|-------------------|------------|------------|-------------|-------------------|
| Phosphine oxide, phenylbis (2,4,6-trimethyl benzoyl) | 162881-26-7 | Yes | Yes | No | Yes | No |
| p-Methoxyphenol | 150-76-5 | Yes | Yes | No | Yes | Yes |
| Inventory (Con't.) | | | | | | |
| Component | CAS | EU ELNICS | Japan ENCS | Korea KECL | New Zealand | Philippines PICCS |
| Acrylic acid, tridecyl ester | 3076-04-8 | No | Yes | Yes | Yes | No |
| Amines, C12-14-tert-alkyl, compds. with 1-[[5-(1,1-dimethylpropyl)-2-hydroxy-3-nitrophenyl]azo]-2-naphthalenol 1-[[2-hydroxy-4(or 5)-nitrophenyl]azo]-2-naphthalenol chromium complexes | 117527-94-3 | Yes | Yes | No | Yes | Yes |
| Phosphine oxide, phenylbis (2,4,6-trimethyl benzoyl) | 162881-26-7 | Yes | Yes | No | Yes | Yes |
| p-Methoxyphenol | 150-76-5 | No | Yes | Yes | Yes | Yes |
| Inventory (Con't.) | | | | | | |
| Component | CAS | Switzerland SWISS | | TSCA | | |
| Acrylic acid, tridecyl ester | 3076-04-8 | No | | Yes | | |
| Amines, C12-14-tert-alkyl, compds. with 1-[[5-(1,1-dimethylpropyl)-2-hydroxy-3-nitrophenyl]azo]-2-naphthalenol 1-[[2-hydroxy-4(or 5)-nitrophenyl]azo]-2-naphthalenol chromium complexes | 117527-94-3 | Yes | | Yes | | |
| Phosphine oxide, phenylbis (2,4,6-trimethyl benzoyl) | 162881-26-7 | Yes | | Yes | | |
| p-Methoxyphenol | 150-76-5 | No | | Yes | | |

Australia

Labor

Australia - List of Designated Hazardous Substances - Classification

| | | |
|--|-------------|----------------------|
| •p-Methoxyphenol | 150-76-5 | Xn, Xi R22, R36, R43 |
| •Phosphine oxide, phenylbis (2,4,6-trimethyl benzoyl) | 162881-26-7 | R43, R53 |
| •Amines, C12-14-tert-alkyl, compds. with 1-[[5-(1,1-dimethylpropyl)-2-hydroxy-3-nitrophenyl]azo]-2-naphthalenol 1-[[2-hydroxy-4(or 5)-nitrophenyl]azo]-2-naphthalenol chromium complexes | 117527-94-3 | N R51, R53 |
| •Acrylic acid, tridecyl ester | 3076-04-8 | Not Listed |

Canada

Labor

Canada - WHMIS 1988 - Classifications of Substances

| | | |
|--|-------------|------------|
| •p-Methoxyphenol | 150-76-5 | D2B |
| •Phosphine oxide, phenylbis (2,4,6-trimethyl benzoyl) | 162881-26-7 | Not Listed |
| •Amines, C12-14-tert-alkyl, compds. with 1-[[5-(1,1-dimethylpropyl)-2-hydroxy-3-nitrophenyl]azo]-2-naphthalenol 1-[[2-hydroxy-4(or 5)-nitrophenyl]azo]-2-naphthalenol chromium complexes | 117527-94-3 | Not Listed |
| •Acrylic acid, tridecyl ester | 3076-04-8 | Not Listed |

Canada - WHMIS 1988 - Ingredient Disclosure List

| | | |
|--|-------------|------------|
| •p-Methoxyphenol | 150-76-5 | 1 % |
| •Phosphine oxide, phenylbis (2,4,6-trimethyl benzoyl) | 162881-26-7 | Not Listed |
| •Amines, C12-14-tert-alkyl, compds. with 1-[[5-(1,1-dimethylpropyl)-2-hydroxy-3-nitrophenyl]azo]-2-naphthalenol 1-[[2-hydroxy-4(or 5)-nitrophenyl]azo]-2-naphthalenol chromium complexes | 117527-94-3 | Not Listed |

•Acrylic acid, tridecyl ester

3076-04-8 Not Listed

Europe

Other

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Classification

•p-Methoxyphenol

150-76-5 Xn; R22 Xi; R36 R43

•Phosphine oxide, phenylbis (2,4,6-trimethyl benzoyl)

162881-26-7 R43 R53

•Amines, C12-14-tert-alkyl, compds. with 1-[[5-(1,1-dimethylpropyl)-2-hydroxy-3-nitrophenyl]azo]-2-naphthalenol 1-[[2-hydroxy-4(or 5)-nitrophenyl]azo]-2-naphthalenol chromium complexes

117527-94-3 N; R51-53

•Acrylic acid, tridecyl ester

3076-04-8 Not Listed

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Labelling

•p-Methoxyphenol

150-76-5 Xn R:22-36-43 S:(2)-24/25-26-37/39-46

•Phosphine oxide, phenylbis (2,4,6-trimethyl benzoyl)

162881-26-7 Xi R:43-53 S:(2)-22-24-37-61

•Amines, C12-14-tert-alkyl, compds. with 1-[[5-(1,1-dimethylpropyl)-2-hydroxy-3-nitrophenyl]azo]-2-naphthalenol 1-[[2-hydroxy-4(or 5)-nitrophenyl]azo]-2-naphthalenol chromium complexes

117527-94-3 N R:51/53 S:61

•Acrylic acid, tridecyl ester

3076-04-8 Not Listed

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Safety Phrases

•p-Methoxyphenol

150-76-5 S:(2)-24/25-26-37/39-46

•Phosphine oxide, phenylbis (2,4,6-trimethyl benzoyl)

162881-26-7 S:(2)-22-24-37-61

•Amines, C12-14-tert-alkyl, compds. with 1-[[5-(1,1-dimethylpropyl)-2-hydroxy-3-nitrophenyl]azo]-2-naphthalenol 1-[[2-hydroxy-4(or 5)-nitrophenyl]azo]-2-naphthalenol chromium complexes

117527-94-3 S:61

•Acrylic acid, tridecyl ester

3076-04-8 Not Listed

Germany

Environment

Germany - Water Classification (VwVwS) - Annex 2 - Water Hazard Classes

•p-Methoxyphenol

150-76-5 ID Number 129, hazard class 1 - low hazard to waters

•Phosphine oxide, phenylbis (2,4,6-trimethyl benzoyl)

162881-26-7 Not Listed

•Amines, C12-14-tert-alkyl, compds. with 1-[[5-(1,1-dimethylpropyl)-2-hydroxy-3-nitrophenyl]azo]-2-naphthalenol 1-[[2-hydroxy-4(or 5)-nitrophenyl]azo]-2-naphthalenol chromium complexes

117527-94-3 Not Listed

•Acrylic acid, tridecyl ester

3076-04-8 Not Listed

Germany - Water Classification (VwVwS) - Annex 3

•p-Methoxyphenol

150-76-5 Not Listed

•Phosphine oxide, phenylbis (2,4,6-trimethyl benzoyl)

162881-26-7 ID Number 2126, hazard class 1 - low hazard to waters

•Amines, C12-14-tert-alkyl, compds. with 1-[[5-(1,1-dimethylpropyl)-2-hydroxy-3-nitrophenyl]azo]-2-naphthalenol 1-[[2-hydroxy-4(or 5)-nitrophenyl]azo]-2-naphthalenol chromium complexes

117527-94-3 ID Number 6374, hazard class 2 - hazard to waters

•Acrylic acid, tridecyl ester

3076-04-8 Not Listed

Japan

Other

Japan - Chemical Substance Control Law (CSCL) - Examined Existing Chemical Substances

•p-Methoxyphenol

150-76-5 Readily biodegradable

•Phosphine oxide, phenylbis (2,4,6-trimethyl benzoyl)

162881-26-7 Not Listed

•Amines, C12-14-tert-alkyl, compds. with 1-[[5-(1,1-dimethylpropyl)-2-hydroxy-3-nitrophenyl]azo]-2-naphthalenol 1-[[2-hydroxy-4(or 5)-nitrophenyl]azo]-2-naphthalenol chromium complexes

117527-94-3 Not Listed

•Acrylic acid, tridecyl ester

3076-04-8 Not Listed

Korea

Labor

Korea - ISHA - Name, Toxicity and Protective Measures of New Chemical Substances

•p-Methoxyphenol

150-76-5 Not Listed

•Phosphine oxide, phenylbis (2,4,6-trimethyl benzoyl)

162881-26-7 (0485)

•Amines, C12-14-tert-alkyl, compds. with 1-[[5-(1,1-dimethylpropyl)-2-hydroxy-3-nitrophenyl]azo]-2-naphthalenol 1-[[2-hydroxy-4(or 5)-nitrophenyl]azo]-2-naphthalenol chromium complexes

117527-94-3 (13-06-346)

•Acrylic acid, tridecyl ester

3076-04-8 Not Listed

15.2 Chemical Safety Assessment

- No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

15.3 Other Information

- California Proposition 65: This product contains or may contain a substance(s) known to the State of California to cause cancer and/or reproductive toxicity.

Section 16 - Other Information

Relevant Phrases (code & full text)

- H315 - Causes skin irritation
- H317 - May cause an allergic skin reaction
- H319 - Causes serious eye irritation
- P261 - Avoid breathing dust, fume, gas, mist, vapors and/or spray.
- P264 - Wash thoroughly after handling.
- P272 - Contaminated work clothing should not be allowed out of the workplace.
- P280 - Wear protective gloves/protective clothing/eye protection/face protection.
- P302+P352 - IF ON SKIN: Wash with plenty of soap and water.
- P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P321 - Specific treatment, see supplemental first aid information.
- P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
- P337+P313 - If eye irritation persists: Get medical advice/attention.
- P362 - Take off contaminated clothing and wash before reuse.
- P501 - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.
- EUH208 - Contains sensitizing substance. May produce an allergic reaction.

Classification method for mixtures

- Calculation method.

Revision Date

- 29 September 2016

Last Revision Date

- 08 April 2014

Preparation Date

- 29 September 2016

Other Information

- Approved by: Troy Bergstedt, Director of Chemical Research, (218) 628-2217 ext.142.

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